

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	280	(514/379).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/11/21 10:07
L2	387	(548/241).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/11/21 10:07

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

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NEWS 8 OCT 03 MATHDI removed from STN
NEWS 9 OCT 04 CA/Caplus-Canadian Intellectual Property Office (CIPO) added
to core patent offices
NEWS 10 OCT 06 STN AnaVist workshops to be held in North America
NEWS 11 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 12 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
of Caplus documents for use in third-party analysis and
visualization tools
NEWS 13 OCT 27 Free KWIC format extended in full-text databases
NEWS 14 OCT 27 DIOGENES content streamlined
NEWS 15 OCT 27 EPFULL enhanced with additional content
NEWS 16 NOV 14 CA/Caplus - Expanded coverage of German academic research

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 06:10:29 ON 21 NOV 2005

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 06:11:02 ON 21 NOV 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 20 NOV 2005 HIGHEST RN 868524-25-8
DICTIONARY FILE UPDATES: 20 NOV 2005 HIGHEST RN 868524-25-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

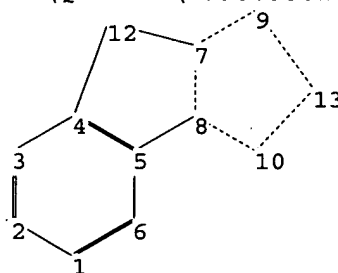
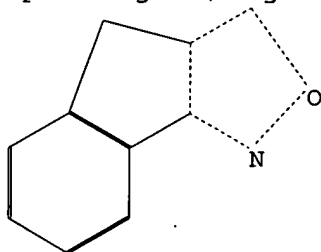
Structure search iteration limits have been increased. See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\099363561.str



ring nodes :
1 2 3 4 5 6 7 8 9 10 12 13
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-12 5-6 5-8 7-9 7-8 7-12 8-10 9-13 10-13
exact/norm bonds :
4-12 5-8 7-9 7-8 7-12 8-10 9-13 10-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :

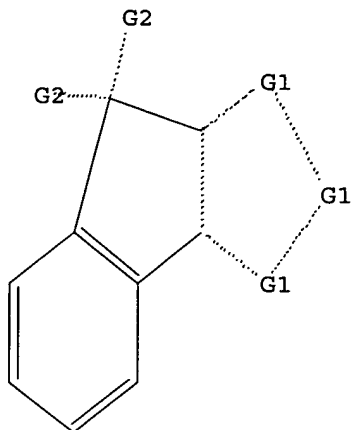
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
12:Atom 13:Atom

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C,O,N

G2 C,H,O

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 06:11:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 135239 TO ITERATE

1.5% PROCESSED 2000 ITERATIONS

9 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

PROJECTED ITERATIONS: 2683072 TO 2726488

PROJECTED ANSWERS: 10691 TO 13651

L2 9 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 06:11:22 FILE 'REGISTRY'

<-----User Break----->

2.2% PROCESSED 60472 ITERATIONS

114 ANSWERS

SEARCH ENDED BY USER

SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

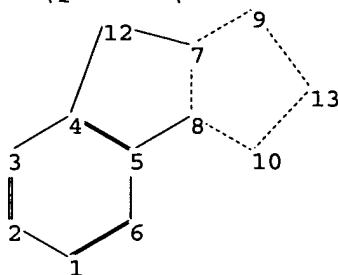
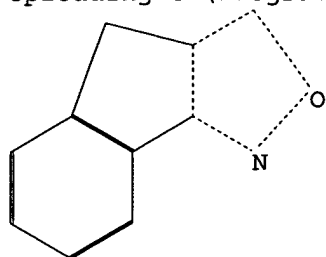
PROJECTED ITERATIONS: 2710188 TO 2710188

PROJECTED ANSWERS: 4895 TO 5323

L3 114 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\099363561.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-12 5-6 5-8 7-9 7-8 7-12 8-10 9-13 10-13

exact/norm bonds :

4-12 5-8 7-9 7-8 7-12 8-10 9-13 10-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

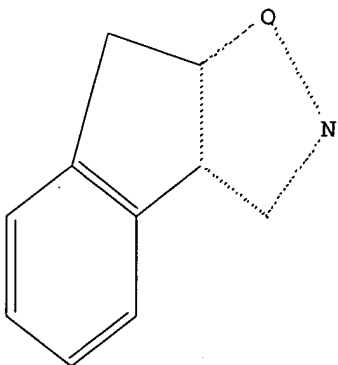
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
12:Atom 13:Atom

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 06:12:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 223 TO ITERATE

100.0% PROCESSED 223 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 3565 TO 5355
 PROJECTED ANSWERS: 2 TO 124

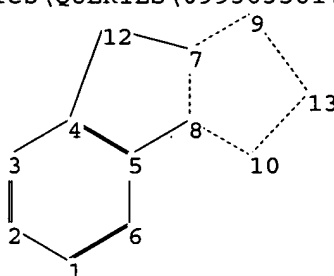
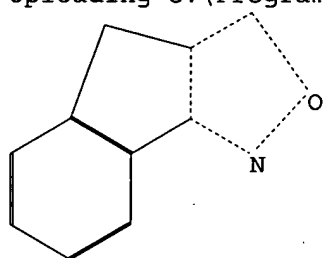
L5 2 SEA SSS SAM L4

=> s l4 full
 FULL SEARCH INITIATED 06:12:18 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 4164 TO ITERATE

100.0% PROCESSED 4164 ITERATIONS 27 ANSWERS
 SEARCH TIME: 00.00.02

L6 27 SEA SSS FUL L4

=>
 Uploading C:\Program Files\Stnexp\Queries\QUERIES\099363561.str

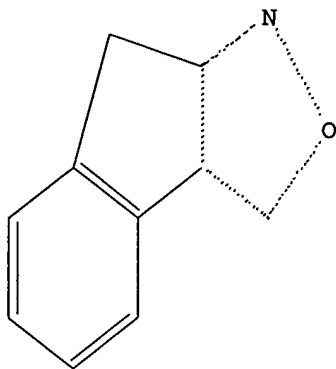


ring nodes :
 1 2 3 4 5 6 7 8 9 10 12 13
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 4-12 5-6 5-8 7-9 7-8 7-12 8-10 9-13 10-13
 exact/norm bonds :
 4-12 5-8 7-9 7-12 8-10 9-13 10-13
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6
 isolated ring systems :
 containing 1 :

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 12:Atom 13:Atom

L7 STRUCTURE UPLOADED

=> d
 L7 HAS NO ANSWERS
 L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 06:12:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 283 TO ITERATE

100.0% PROCESSED 283 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4651 TO 6669
PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

=> s 17 full

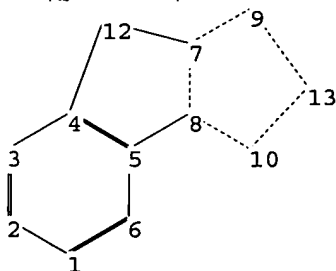
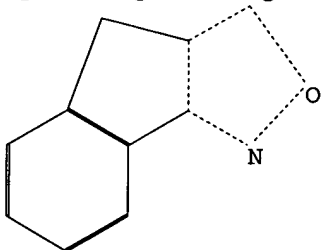
FULL SEARCH INITIATED 06:12:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5677 TO ITERATE

100.0% PROCESSED 5677 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L9 4 SEA SSS FUL L7

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\099363561.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 12 13

ring bonds :

1-2 1-6 2-3 3-4 4-5 4-12 5-6 5-8 7-9 7-8 7-12 8-10 9-13 10-13

exact/norm bonds :

4-12 5-8 7-9 7-8 7-12 8-10 9-13 10-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

isolated ring systems :

containing 1 :

Match level :

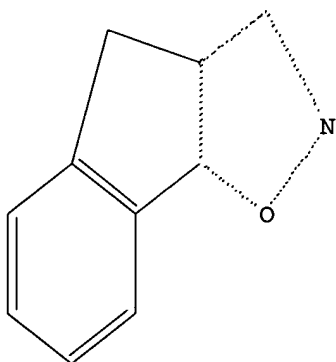
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
12:Atom 13:Atom

L10 STRUCTURE UPLOADED

=> d

L10 HAS NO ANSWERS

L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l10

SAMPLE SEARCH INITIATED 06:13:58 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 223 TO ITERATE

100.0% PROCESSED 223 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 3565 TO 5355

PROJECTED ANSWERS: 5 TO 234

L11 5 SEA SSS SAM L10

=> s l10 ful

FULL SEARCH INITIATED 06:14:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 4164 TO ITERATE

100.0% PROCESSED 4164 ITERATIONS

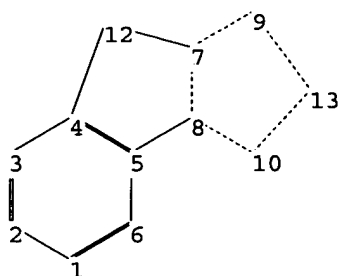
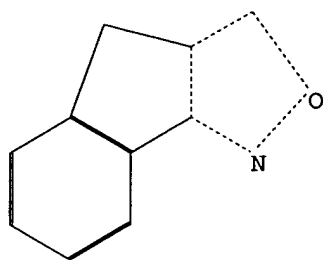
75 ANSWERS

SEARCH TIME: 00.00.01

L12 75 SEA SSS FUL L10

=>

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```

ring nodes :
1  2  3  4  5  6  7  8  9  10  12  13
ring bonds :
1-2  1-6  2-3  3-4  4-5  4-12  5-6  5-8  7-9  7-8  7-12  8-10  9-13  10-13
exact/norm bonds :
4-12  5-8  7-9  7-8  7-12  8-10  9-13  10-13
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6
isolated ring systems :
containing 1 :

```

```

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
12:Atom 13:Atom

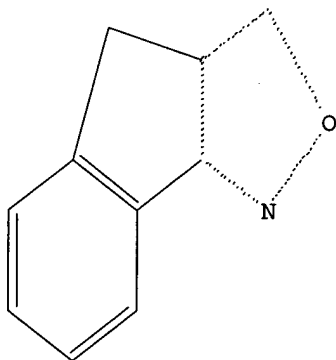
```

L13 STRUCTURE UPLOADED

```

=> d
L13 HAS NO ANSWERS
L13 STR

```



Structure attributes must be viewed using STN Express query preparation.

```

=> s l13
SAMPLE SEARCH INITIATED 06:14:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 283 TO ITERATE

```

```

100.0% PROCESSED      283 ITERATIONS      1 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   4651 TO 6669

```

PROJECTED ANSWERS:

1 TO

80

L14 1 SEA SSS SAM L13

=> s l13 full

FULL SEARCH INITIATED 06:14:51 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 5677 TO ITERATE

100.0% PROCESSED 5677 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.03

L15 13 SEA SSS FUL L13

=> s l6 and caplus/lc

48972147 CAPLUS/LC

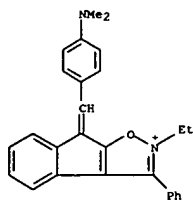
L16 24 L6 AND CAPLUS/LC

=> s l6 not l16

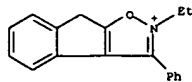
L17 3 L6 NOT L16

=> d 1-3

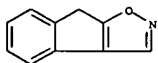
L17 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 47649-55-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 8H-Indeno[1,2-d]isoxazolium, 8-[[4-(dimethylamino)phenyl]methylene]-2-ethyl-3-phenyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C27 H25 N2 O
 CI COM



L17 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 47044-14-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 8H-Indeno[1,2-d]isoxazolium, 2-ethyl-3-phenyl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H16 N O
 CI COM



L17 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 319-10-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 8H-Indeno[1,2-d]isoxazole (8CI, 9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C10 H7 N O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

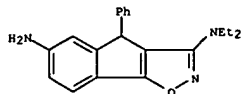
=> s l9 and caplus/lc
48972147 CAPLUS/LC
L18 4 L9 AND CAPLUS/LC

=> s l12 and caplus/lc
48972147 CAPLUS/LC
L19 70 L12 AND CAPLUS/LC

=> s l12 not l19
L20 5 L12 NOT L19

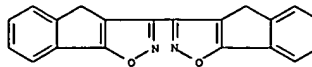
=> d 1-5

L20 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 838884-34-7 REGISTRY
 ED Entered STN: 28 Feb 2005
 CN INDEX NAME NOT YET ASSIGNED
 FS 3D CONCORD
 MF C20 H21 N3 O
 SR Chemical Library
 LC STN Files: CHEMCATS



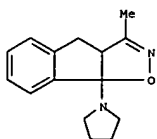
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 502181-33-1 REGISTRY
 ED Entered STN: 08 Apr 2003
 CN 3,3'-Bi-4H-indeno[2,1-d]isoxazole (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN NSC 371686
 FS 3D CONCORD
 MF C20 H12 N2 O2
 SR Chemical Library



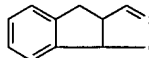
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 46849-31-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-methyl-8b-(1-pyrrolidinyl)- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H18 N2 O
 CI COM
 LC STN Files: BEILSTEIN*
 (*File contains numerically searchable property data)



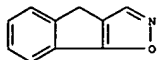
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 5695-19-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro- (8CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 3a,8b-Dihydro-4H-indeno[2,1-d]isoxazole
 CN 4,5-(2,1-Indano)-2-isoxazoline
 FS 3D CONCORD
 MF C10 H9 N O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2005 ACS on STN
RN 247-33-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN 4H-Indeno[2,1-d]isoxazole (8CI, 9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C10 H7 N O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> s l14 and caplus/lc
48972147 CAPLUS/LC
L21 1 L14 AND CAPLUS/LC

=> s l14 and caplus/lc
48972147 CAPLUS/LC
L22 1 L14 AND CAPLUS/LC

=> s l14 not l22
L23 0 L14 NOT L22

=> s l15 and caplus/lc
48972147 CAPLUS/LC
L24 13 L15 AND CAPLUS/LC

=> fil caplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	851.55	851.76

FILE 'CAPLUS' ENTERED AT 06:17:35 ON 21 NOV 2005
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FILE COVERS 1907 - 21 Nov 2005 VOL 143 ISS 22
FILE LAST UPDATED: 20 Nov 2005 (20051120/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

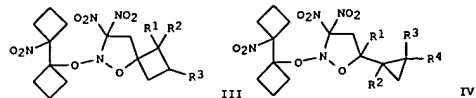
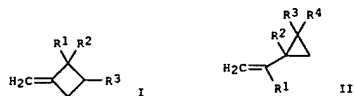
<http://www.cas.org/infopolicy.html>

=> s l16
L25 10 L16

=> d ibib abs hitstr 1-10

L25 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:574043 CAPLUS
DOCUMENT NUMBER: 142:155884
TITLE: Three-component reactions of tetranitromethane with olefins
AUTHOR(S): Averina, E. B.; Budynina, E. M.; Ivanova, O. A.; Grishin, Yu. K.; Gerdov, S. M.; Kuznetsova, T. S.; Zefirov, N. S.
CORPORATE SOURCE: Moscow State University, Moscow, 119899, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(2), 162-173
CODEN: RUOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:155884
GI

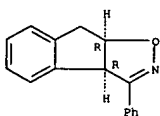


AB Three-component reactions of tetranitromethane with two different olefins.
e.g. cyclobutylidenecyclobutane and cyclobutane derivs. (I) (R1 = R2 = R3 = R4 = H; R1 = R2 = CH2CH2, R3 = H; R1 = R2 = H, R3 = cyano) or vinylcyclobutane derivs. (II) (R1' = R2' = R3' = R4' = H; R1' = cyclopropyl, R2' = R3' = R4' = H; R1' = R2' = H, R3' = R4' = CO2Et; R1' = Me, R2' = isopropenyl, R3' = R4' = H), taken in equimolar amts. are procedures fit for preparation of 3,3-dinitroisoxazolidines of a mixed composition, e.g. (III) or (IV).
IT 828922-53-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of dinitroisoxazolidine derivs. by three-component cycloaddn. reactions of tetranitromethane with olefins)
RN 828922-53-8 CAPLUS
CN 2H-Indeno[1,2-d]isoxazole, 3,3a,8a-tetrahydro-3,3-dinitro-2-[(1'-nitro[1,1'-bicyclobutyl]-1-yl)oxy]- (9CI) (CA INDEX NAME)

L25 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

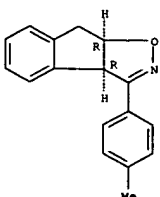
ACCESSION NUMBER: 1998:358689 CAPLUS
DOCUMENT NUMBER: 129:109016
TITLE: One-pot synthesis of isoxazoline derivatives by sonochemical activation
AUTHOR(S): Bougrin, Khalid; Lamiri, Mustapha; Soufiasoui, Mohamed
CORPORATE SOURCE: Laboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique, Université Mohammed V, Faculté des Sciences, Rabat, 1014 R.P., Morocco
SOURCE: Tetrahedron Letters (1998), 39(25), 4455-4458
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: French
AB Several isoxazolines are prepared from oximes and olefins in the biphasic system Ca(OC1)2/CH2Cl2 or NaOC1/CH2Cl2. Yields are increased under sonication when compared to classical stirring under the same conditions.
IT 210035-72-6P 210035-73-7P 210035-74-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(one-pot synthesis of isoxazoline derivs. by sonochem. activation)
RN 210035-72-6 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl-, (3aR,8aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



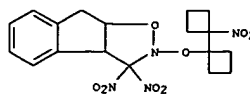
RN 210035-73-7 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-(4-methylphenyl)-, (3aR,8aR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 210035-74-8 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-(4-methoxyphenyl)-, (3aR,8aR)-rel- (9CI) (CA INDEX NAME)

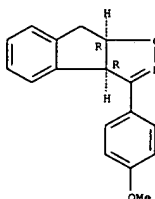
L25 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L25 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Relative stereochemistry.



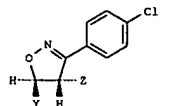
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L25 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:794721 CAPLUS

DOCUMENT NUMBER: 128:75333

TITLE: 1,3-Dipolar addition of aryl nitrile oxides to some olefinic dipolarophiles in the presence of alumina in dry medium and under microwave irradiation
 AUTHOR(S): Syaasi, Bouazza; Bougrin, Khalid; Soufiaoui, Mohamed
 CORPORATE SOURCE: Lab. Chimie Plantes Synthèse Organique Bioorganique, Fac. Scis., Univ. Mohammed V., Rabat, 1014, Morocco
 SOURCE: Tetrahedron Letters (1997), 38(51), 8855-8858
 CODEN: TETLEA; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Isoxazolines, e.g., I (Y = H, Ph, Z = CO₂Bu, CO₂Et, C₆H₅), are prepared in good yields on solid mineral support in "dry media" and under microwave irradiation in domestic ovens.

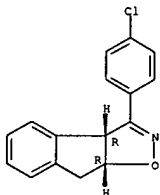
IT 200575-68-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (dipolar addition of aryl nitrile oxides to olefinic compds. under microwave irradiation to give isoxazolines)

RN 200575-68-4 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3-(4-chlorophenyl)-3a,8a-dihydro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

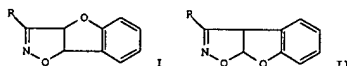
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L25 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1978:475171 CAPLUS

DOCUMENT NUMBER: 89:75171

TITLE: Selectivity in cycloadditions. 6. Cycloadditions of nitrile oxides to benzofuran. Regiochemistry
 AUTHOR(S): Caramella, P.; Cellarino, G.; Houk, K. N.; Albini, F.
 CORPORATE SOURCE: Dep. Chem., Louisiana State Univ., Baton Rouge, LA, USA
 SOURCE: Journal of Organic Chemistry (1978), 43(15), 3006-10
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Cycloaddn. of RCNO (I; R = Ph, 2,4,6-Me₃C₆H₂) to benzofuran yielded the 2 regioisomeric cycloadducts in 70:30 and 26:74 ratio, resp. Frontier-orbital considerations, using ab initio STO-3G, CNDO/2 or EHMO calcs., and a comparison with the regioselectivities observed with

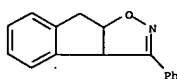
indene and styrene allowed elucidation of the inversion of regiochem. of the cycloaddns. of I to benzofuran.

IT 42443-92-5P 61191-74-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

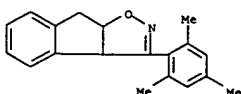
RN 42443-92-5 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl- (9CI) (CA INDEX NAME)



RN 61191-74-0 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



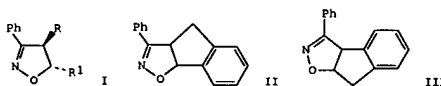
L25 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

L25 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:4459 CAPLUS

DOCUMENT NUMBER: 86:4459

TITLE: Δ²-Isoxazoline derivatives. Part X. 1,3-Dipolar cycloadditions of nitrones and nitrile oxides with indene, 1,2-dihydronaphthalene, and trans-1-phenylpropene
 AUTHOR(S): Bianchi, Giorgio; De Micheli, Carlo; Gandolfi, Remo
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Pavia, Pavia, Italy
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1976), (14), 1518-23
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB Reaction of cyclic and acyclic nitrones and nitrile oxides with 1,2-dihydronaphthalene, indene, and trans-MeCH:CHPh gave mixts. of regioisomers. E.g., PhC.tplbond.NO with trans-MeCH:CHPh gave 43.5% of a 66:34 mixture of isoxazolines I (R = Me, R₁ = Ph; R = Ph, R₁ = Me) and

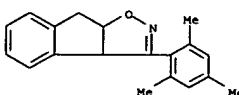
with indene 91% of a 98:2 mixture of II and III was formed. The results are analyzed on the basis of frontier orbital interactions and steric requirements of the reagents; transition state structures for the reactions are proposed.

IT 61191-74-0P 61191-76-2P 61191-80-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

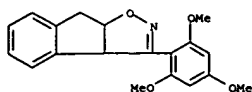
RN 61191-74-0 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



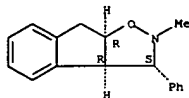
RN 61191-76-2 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-(2,4,6-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



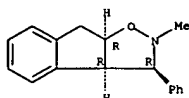
RN 61191-80-8 CAPLUS
CN 2H-Indeno[1,2-d]isoxazole, 3,3a,8,8a-tetrahydro-2-methyl-3-phenyl-,
(3α,3aα,8aα)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 61218-36-8 CAPLUS
CN 2H-Indeno[1,2-d]isoxazole, 3,3a,8,8a-tetrahydro-2-methyl-3-phenyl-,
(3α,3aβ,8aβ)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



ACCESSION NUMBER: 1973:465646 CAPLUS
DOCUMENT NUMBER: 79:65646
TITLE: Selectivity in cycloadditions. III.
Regioselectivity

AUTHOR(S):

CORPORATE SOURCE:
SOURCE:

DOCUMENT TYPE:
LANGUAGE:

GI For diagram(s), see printed CA Issue.
AB Treatment of benzohydroxamic acid chloride with Et₃N in Et₂O at 0° gave PhC.tplbond.NO which cyclo-added to cyclopentadiene to give 94% of a mixture of monoadducts containing 99% I and 1% II. Further cycloaddn. of PhC.tplbond.NO to I gave a mixture containing 30% anti-III, 45% anti-IV,

6% syn-III, and 19% syn-IV. Similarly, cycloaddn. to II gave a mixture containing 39% anti-IV, 43% anti-V, 18% syn-IV, and 0% syn-V. The cycloaddn. of PhC.tplbond.NO to indene also gave a mixture containing 98% VI and 2% VII. The

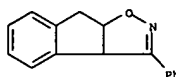
π-configurative control of the highly regioselective cycloaddn. of PhC.tplbond.NO to cyclopentadiene and indene was contrasted to the lack of regiospecificity or -selectivity in the cycloaddn. of PhC.tplbond.NO to 6,6-dimethyl- and 6,6-diphenylfulvene. The frontier orbital interactions of PhC.tplbond.NO with indene and cyclopentadiene were discussed.

IT 42443-92-5P

RL: SPN (Synthetic preparation); PREP (Preparation of)
(preparation of)

RN 42443-92-5 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1972:112961 CAPLUS
DOCUMENT NUMBER: 76:112961
TITLE: Pharmacologically active 1,2-substituted indene compounds

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE: U.S., 5 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3636116	A	19720118	US 1968-757102	19680903
US 3719674	A	19730306	US 1971-113744	19710208
PRIORITY APPLN. INFO.:			US 1968-757102	A3 19680903

GI For diagram(s), see printed CA Issue.

AB Treatment of indene with substituted chlorobenzohydroxamoyl chlorides gave

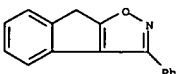
indenoisoxazoles (I, R₁, R₂, R₃ = H, Cl, Br, Me), which were reduced to 2-(α-aminosubstituted benzyl)-1-indanols, which when treated with BrCN and cyclized, gave the indenooxazines (II, R₁, R₂, R₃ = H, Cl, Br, Me). The compds. were amphetamine and barbiturate potentiators. Thus, Et₃N was added to CHCl₃ containing 4-chloro-benzohydroxamoyl chloride and indene and the mixture refluxed to give I (R₁ = R₃ = H, R₂ = 4-Cl) (III). III was reduced by LiAlH₄ in Et₂O to give 2-(α-amino-4-chlorobenzyl)-1-indanol, which when administered to mice at 65 mg/kg with hexobarbital, doubled the mice sleep time. Five other I, 3 indanols, 3 BrCN-indanol reaction products, and 4 II were prepared

IT 36288-35-4P 36288-36-5P

RL: SPN (Synthetic preparation); PREP (Preparation of)
(preparation of)

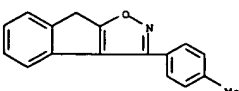
RN 36288-35-4 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3-phenyl- (9CI) (CA INDEX NAME)



RN 36288-36-5 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3-(4-methylphenyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

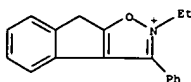
ACCESSION NUMBER: 1969:11627 CAPLUS
DOCUMENT NUMBER: 70:11627
TITLE: Pseudoazulenes. VI. Indenopyrazoles and the attempted preparation of an indenoxazole
AUTHOR(S): Boyd, Gerhard V.; Hewson, David
CORPORATE SOURCE: Chelsea Coll. Sci. Technol., London, UK
JOURNAL OF THE CHEMICAL SOCIETY [Section] C: Organic (1968), (23), 2959-64
CODEN: JSOQAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 70:11627
GI: For diagram(s), see printed CA Issue.
AB: 2-Methyl-1,3-diphenylindeno [2,1-c]pyrazole (I) and the 3-ethoxycarbonyl analog of I, derivs. of a novel pseudoazulenic system containing two fused

five-membered rings were prepared. The direction of addition of nitrilimines to indanone-enamines was established. The pseudo-azulenes are protonated on the five-membered carbon ring. Azo-coupling, tropylation, and condensation with p-Me2NC6H4CHO was carried out on I; the structures of the products and of their conjugate acids are discussed.

IT 21405-92-5P 21405-93-6P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 21405-92-5 CAPLUS
CN 8H-Indeno[1,2-d]isoxazolium, 2-ethyl-3-phenyl-, tetrafluoroborate(1-)
(8CI) (CA INDEX NAME)

CM 1
CRN 47044-14-4
CMF C18 H16 N O



CM 2
CRN 14874-70-5
CMF B F4
CCI CCS



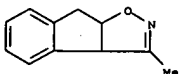
RN 21405-93-6 CAPLUS

L25 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

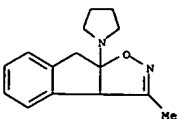
ACCESSION NUMBER: 1967:500043 CAPLUS
DOCUMENT NUMBER: 67:100043
TITLE: Indenoxazole derivatives
AUTHOR(S): Bianchi, Giorgio; Gandolfi, Remo; Gruenanger, Paolo; Perotti, Angelo
CORPORATE SOURCE: Univ. Pavia, Pavia, Italy
JOURNAL OF THE CHEMICAL SOCIETY [Section] C: Organic (1967), (17), 1598-602
CODEN: JSOQAX; ISSN: 0022-4952

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 67:100043
GI: For diagram(s), see printed CA Issue.
AB: From the cycloaddn. of acetonitrile N-oxide with indene two isomeric methylidihydroindenoxazoles (I and II) were isolated. Elucidation of their structures by bromination and 1H N.M.R. spectroscopy, and related reactions on analogous compds. are described. 17 references.

IT 16565-53-0P 16565-64-3P 16565-65-4P
16565-66-5P 16565-67-6P 16565-68-7P
16565-69-8P 16614-68-9P 16614-69-0P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 16565-53-0 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-methyl- (8CI) (CA INDEX NAME)



RN 16565-64-3 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-methyl-8a-(1-pyrrolidinyl)-
(8CI) (CA INDEX NAME)



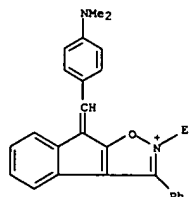
RN 16565-65-4 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-methyl-8a-(1-pyrrolidinyl)-,
monomethiodide (8CI) (CA INDEX NAME)

CM 1
CRN 16565-64-3
CMF C15 H18 N2 O

L25 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

CN 8H-Indeno[1,2-d]isoxazolium, 8-[p-(dimethylamino)benzylidene]-2-ethyl-3-phenyl-, tetrafluoroborate(1-) (8CI) (CA INDEX NAME)

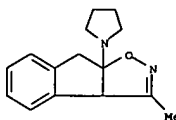
CM 1
CRN 47649-55-8
CMF C27 H25 N2 O



CM 2
CRN 14874-70-5
CMF B F4
CCI CCS



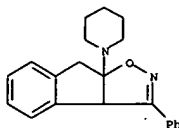
L25 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



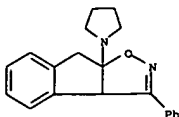
CM 2
CRN 74-88-4
CMF C H3 I

H3C-I

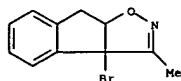
RN 16565-66-5 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl-8a-piperidino- (8CI)
(CA INDEX NAME)



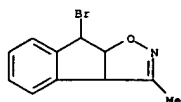
RN 16565-67-6 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl-8a-(1-pyrrolidinyl)-
(8CI) (CA INDEX NAME)



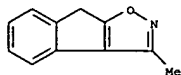
RN 16565-68-7 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a-bromo-3a,8a-dihydro-3-methyl- (8CI) (CA
INDEX NAME)



RN 16565-69-8 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 8-bromo-3a,8a-dihydro-3-methyl- (8CI) (CA INDEX NAME)



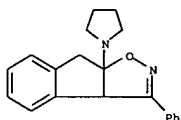
RN 16614-68-9 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3-methyl- (8CI) (CA INDEX NAME)



RN 16614-69-0 CAPLUS
CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-3-phenyl-8a-(1-pyrrolidinyl)-, monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 16565-67-6
CMF C20 H20 N2 O



CM 2

CRN 74-88-4
CMF C H3 I

ACCESSION NUMBER: 1964:82853 CAPLUS
DOCUMENT NUMBER: 60:82853
ORIGINAL REFERENCE NO.: 60:14501e-h
TITLE: Enamines. X. Reactions of halohydroxamic acids with enamines of alicyclic compounds
AUTHOR(S): Bianchetti, Giuseppe; Pocar, Donato; Dalla Croce, Piero
CORPORATE SOURCE: Univ. Milan
SOURCE: Gazzetta Chimica Italiana (1963), 93(12), 1726-35
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 60:82853

AB 1-(N-morpholinyl)-1-cycloheptene, b₁₃ 134°, was prepared by azeotropic removal of H₂O from equimolar amts. of cycloheptanone and morpholine in PhMe containing a trace of MeC₆H₄SO₃H, followed by distillation

Similarly was prepared 1-(N-4-methylpiperazinyl)-1-cyclopentene, b_{0.15} 116-18°. Equimolar amts. of II, 1-(N-morpholinyl)-1-cyclohexene, and Et₃N boiled in CHCl₃ 1 hr. and evaporated to an oil that solidified

gave V (R = 4-O₂NC₆H₄, n = 4, R' = N-morpholinyl, m. 138-40° (EtOH).

Likewise, by boiling 45 min. to 1 hr. and using the resp. reagents were prepared the following derivs. of V: (R = 4-O₂NC₆H₄, R' = N-morpholinyl,

n = 5), m. 180° (MeOH); (R = Ph, R' = N-pyrrolidinyl, n = 4), m. 103°; (R = 4-O₂NC₆H₄, R' = N-morpholinyl, n = 3), m. 154° (EtOH); (R = 4-ClC₆H₄, R' = N-morpholinyl, n = 3), m. 115° (MeOH);

(R = Ph, R' = N-morpholinyl, n = 3), m. 105-6° (ligroine); (R = 4-ClC₆H₄, R' = N-piperidinyl, n = 3), m. 108° (EtOH); (R = 4-ClC₆H₄, R' = N-4-methylpiperidinyl, n = 3), m. 120° (ligroine).

Also prepared was 3-(4-nitrophenyl)8a-(N-morpholinyl)-3a,8a-dihydroindeno[1,2-d]isoxazole (in absence of Et₃N), m. 238° (EtOH). Derivs. of V with n = 4 or 5 were readily hydrolyzed by 10-20% HCl to the corresponding derivs. of VI; thus were prepared: R =

4-O₂NC₆H₄, n = 4, m. 180° (EtOH); R = 4-O₂NC₆H₄, n = 5, m. 132° (MeOH); R = Ph, n = 4, m. 50° (aqueous AcOH); however V with n = 3 were recovered unchanged even with 48% HBr. V (R = Ph, R' = N-morpholinyl, n = 4), m. 103°, was also prepared as in previous paper from benzonitrile

N-oxide and 1-(N-morpholinyl)-1-cyclohexene (VII) in boiling CHCl₃, 30 min. VI (R = CO₂H, n = 4), m. 128° (H₂O), was prepared by boiling 10 g. ClC(:NOH)(CO₂Et) and VII in 300 cc. CHCl₃ 1 hr. and evaporating to an

oil which was extracted with Et₂O, filtered, evaporated, and the residue boiled 30

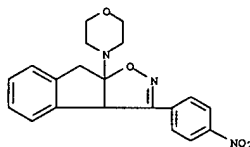
min. with 100 cc. 10% NaOH and then acidified.

IT 90117-24-1, 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-8a-morpholino-3-(p-nitrophenyl)- (preparation of)

RN 90117-24-1 CAPLUS

CN 8H-Indeno[1,2-d]isoxazole, 3a,8a-dihydro-8a-morpholino-3-(p-nitrophenyl)- (7CI) (CA INDEX NAME)

H₃C-I



=> s l19

L26 37 L19

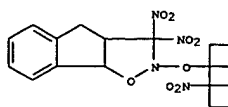
=> s l26 not l25

L27 30 L26 NOT L25

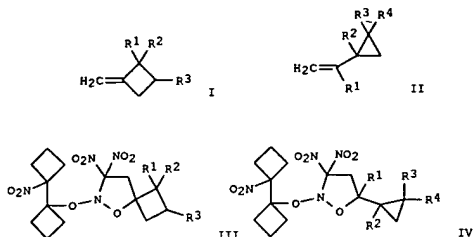
=> d ibib abs hitstr l26 1-37

L26 ANSWER 1 OF 37 CAPIUS COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 2004:574043 CAPIUS
 DOCUMENT NUMBER: 142:155884
 TITLE: Three-component reactions of tetranitromethane with olefins
 AUTHOR(S): Averina, E. B.; Budynina, E. M.; Ivanova, O. A.; Grishin, Yu. K.; Gerdov, S. M.; Kuznetsova, T. S.; Zefirov, N. S.
 CORPORATE SOURCE: Moscow State University, Moscow, 119899, Russia
 SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2004), 40(2), 162-173
 CODEN: RUOCEQ; ISSN: 1070-4280
 PUBLISHER: MAIK Nauka/Interperiodica Publishing
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:155884
 GI

L26 ANSWER 1 OF 37 CAPIUS COPYRIGHT 2005 ACS ON STN (Continued)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

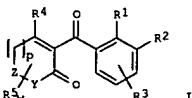


AB Three-component reactions of tetranitromethane with two different olefins.
 e.g. cyclobutylencyclobutane and cyclobutane derivs. (I) (R1 = R2 = R3 = R4 = H; R1 = R2 = CH2CH2, R3 = H; R1 = R2 = H, R3 = cyano) or vinylcyclobutane derivs. (II) (R1' = R2' = R3' = R4' = H; R1' = cyclopropyl, R2' = R3' = R4' = H; R1' = R2' = H, R3' = R4' = CO2Et; R1' = Me, R2' = isopropenyl, R3' = R4' = H), taken in equimolar amts. are procedures fit for preparation of 3,3-dinitroisoxazolidines of a mixed composition.
 e.g. (III) or (IV).
 IT 828922-54-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of dinitroisoxazolidine derivs. by three-component cycloaddn.
 reactions of tetranitromethane with olefins)
 RN 828922-54-9 CAPIUS
 CN 2H-Indeno[2,1-d]isoxazole, 3,3a,4,8b-tetrahydro-3,3-dinitro-2-[(1'-nitro[1,1'-bicyclobutyl]-1-yl)oxy]- (9CI) (CA INDEX NAME)

L26 ANSWER 2 OF 37 CAPIUS COPYRIGHT 2005 ACS ON STN
 ACCESSION NUMBER: 2002:171868 CAPIUS
 DOCUMENT NUMBER: 136:216742
 TITLE: Preparation of 2-[(isoxazol-3-yl)benzoyl]cyclohexane-1,3-diones as herbicides
 INVENTOR(S): Van Almsick, Andreas; Willms, Lothar; Auler, Thomas; Bieringer, Hermann; Thuerwaechter, Felix
 PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

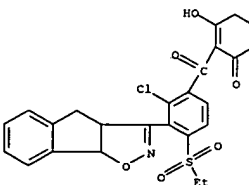
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018352	A1	20020307	WO 2001-EP9601	20010821
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GE, GR, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RM: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10043075	A1	20020314	DE 2000-10043075	20000901
AU 2001082108	A5	20020313	AU 2001-82108	20010821
EP 1315706	A1	20030604	EP 2001-960683	20010821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002173424	A1	20021121	US 2001-943040	20010830
US 6703348	B2	20040309		
PRIORITY APPLN. INFO.:			DE 2000-10043075	A 20000901
			WO 2001-EP9601	W 20010821

OTHER SOURCE(S): MARPAT 136:216742
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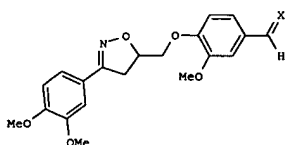
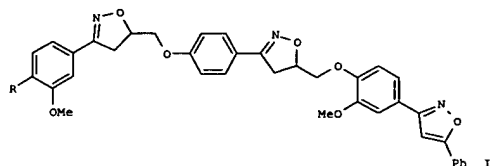
AB Title compds. (I: R1 = halo, (halo)alkyl, alkylsulfinyl, alkylsulfinyl, alkylsulfonyl, NO2; R2 = (substituted) bi-, tri-, or tetracyclic heteroaryl; R3 = halo, (halo)alkyl, alkylsulfinyl, alkylsulfonyl, NO2; R4 = OR7, (halo)alkylthio, (halo)alkenylthio, (halo)alkynylthio, (halo)alkylsulfinyl, etc.; R7 = H, (halo)alkyl, alkoxyalkyl, CHO, alkylcarbonyl, etc.; R5 = tetrahydropyran-3-yl, tetrahydropyran-4-yl, tetrahydrothiopyran-3-yl, alkyl, cycloalkyl, etc.;
 Y

L26 ANSWER 2 OF 37 CAPIUS COPYRIGHT 2005 ACS ON STN (Continued)
 = O, S, NH, N-alkyl, CHR5, CR52; Z = O, S, SO, SO2, NH, N-alkyl, CHR5, CR52; p = 0, 1; w = 0-4), were prepd. Thus, 2-chloro-4-methylsulfonyl-3-(3a,4,5,6a-tetrahydrofuro[3,2-d]isoxazol-3-yl)benzoic acid (prepn. given) in CH2Cl2 was treated with (COCl)2 and DMF at room temp. followed by reflux for 1 h and dropwise addn. of 1,3-cyclohexanedione and Et3N in CH2Cl2 to give after 2 h stirring 87% 2-chloro-4-methylsulfonyl-3-(3a,4,5,6a-tetrahydrofuro[3,2-d]isoxazol-3-yl)benzoic acid 3-oxocyclohex-1-enyl ester. The resulting intermediate in MeCN was stirred with Et3N and acetone cyanohydrin for 16 h at room temp. to give 73% 2-[2-chloro-4-methylsulfonyl-3-(3a,4,5,6a-tetrahydrofuro[3,2-d]isoxazol-3-yl)benzoyl]cyclohexane-1,3-dione. The latter at 38-150 ppm postemergent gave 85-95% control of Setaria faberii and 70-90% control of Setaria viridis. The title compds. are esp. useful to combat of Setaria spp. on corn cultures.
 IT 402478-57-3P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (preparation of (isoxazolylbenzoyl)cyclohexanediones as herbicides)
 RN 402478-57-3 CAPIUS
 CN 2-Cyclohexen-1-one,
 2-[2-chloro-3-(3a,8b-dihydro-4H-indeno[2,1-d]isoxazol-3-yl)-4-(ethylsulfonyl)benzoyl]-3-hydroxy- (9CI) (CA INDEX NAME)



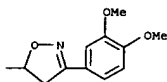
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L26 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:557689 CAPLUS
 DOCUMENT NUMBER: 135:344409
 TITLE: Synthesis of novel polyheterocyclic compounds
 AUTHOR(S): Hassikou, A.; Benabdallah, G. A.; Dina, M. N.;
 Bougrin, K.; Soufiaoui, M.
 CORPORATE SOURCE: Laboratoire de Chimie des Plantes et de Synthèse
 Organique et Bio-organique, Université Mohammed
 V-Agdal, Faculté des Sciences, RP Rabat, Morocco
 SOURCE: Tetrahedron Letters (2001), 42(34), 5857-5861
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: French
 OTHER SOURCE(S): CASREACT 135:344409
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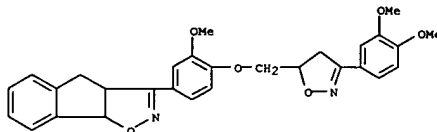
AB New polyheterocyclic compds. containing two or three oxazole or oxazoline moieties such as I (R = MeO) are prepared. Alkynyloxy and allyloxybenzaldehydes are prepared; cycloaddn. of nitrile oxides generated in situ from benzaldehyde oximes to the allyl- and propargyloxy moieties gave isoxazolines and isoxazoles with free aldehyde moieties. The aldehyde moieties formed oximes on treatment with hydroxylamine hydrochloride; oxidation of the oximes gave nitrile oxides in situ which reacted with di-Me acetylenedicarboxylate, phenylacetylene, indene, and an allyloxybenzaldehyde to give isoxazoles and isoxazolines. E.g., treatment

L26 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 PAGE 1-B



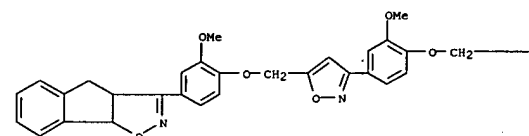
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L26 ANSWER 3 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 of 3-hydroxy-4-methoxybenzaldehyde with propargyl bromide gave 3-methoxy-4-(propargyloxy)benzaldehyde; cycloaddn. with 3,4-dimethoxybenzaldehyde oxime in the presence of sodium hypochlorite in methylene chloride and water gave a phenylisoxazolylmethoxybenzaldehyde II (X = O) in 75% yield. E.g., treatment of II (X = O) with hydroxylamine hydrochloride and sodium hydroxide gave oxime II (R = (HO)N); oxidn. of II [X = (HO)N] and addn. of an allyloxybenzaldehyde gave an aldehyde contg. isoxazole and isoxazolidine moieties; treatment of the aldehyde with hydroxylamine hydrochloride, oxidn. and treatment with phenylacetylene gave I.
 IT 370865-91-1P 370865-94-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of compds. with multiple isoxazole or isoxazoline moieties)
 RN 370865-91-1 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-[4-[[3-(4-(3,4-dimethoxyphenyl)-4,5-dihydro-5-isoxazolyl)methoxy]-3-methoxyphenyl]-5-isoxazolyl)methoxy]-3-methoxyphenyl]-3a,8b-dihydro- (9CI) (CA INDEX NAME)

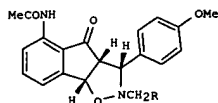


RN 370865-94-4 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-[4-[[3-(4-(3,4-dimethoxyphenyl)-4,5-dihydro-5-isoxazolyl)methoxy]-3-methoxyphenyl]-5-isoxazolyl)methoxy]-3-methoxyphenyl]-3a,8b-dihydro- (9CI) (CA INDEX NAME)

PAGE 1-A

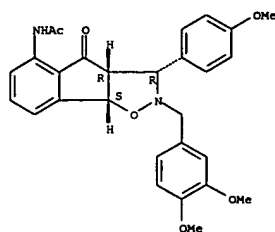


L26 ANSWER 4 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:330717 CAPLUS
 DOCUMENT NUMBER: 135:137419
 TITLE: Lanthanide triflate catalyzed 1,3-dipolar cycloaddition reactions: stereoselective synthesis of indenoisoxazolidines
 AUTHOR(S): Nugiel, D. A.
 CORPORATE SOURCE: DuPont Pharmaceuticals, Wilmington, DE, 19880-0336, USA
 SOURCE: Tetrahedron Letters (2001), 42(21), 3545-3547
 CODEN: TELEAY; ISSN: 0040-4039
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:137419
 GI



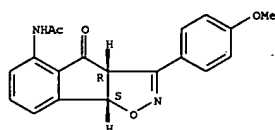
AB Substituted indenones reacted smoothly with a variety of in situ generated nitrones in the presence of lanthanide triflates to give exclusive exo 1,3-dipolar cycloaddn. products, I (R = Ph, 4-MeOC6H4, 3,4-(MeO)2C6H3) in high yield. Judicious choice of the nitron substituents allowed for further modification of the indenoisoxazolidine core to the corresponding indenoisoxazoline and indenoisoxazole analogs in high yield.
 IT 352000-71-6P 352000-76-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (lanthanide triflate catalyzed 1,3-dipolar cycloaddn. reactions, stereoselective synthesis of indenoisoxazolidines)
 RN 352000-71-6 CAPLUS
 CN Acetamide, N-[(3R,3aR,8bS)-2-[(3,4-dimethoxyphenyl)methyl]-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



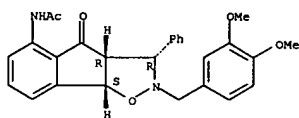
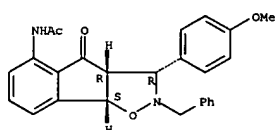
RN 352000-76-1 CAPLUS
CN Acetamide, N-[(3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-4H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



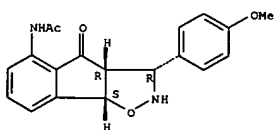
IT 352000-69-2P 352000-70-5P 352000-72-7P
352000-73-8P 352000-75-0P 352000-77-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(lanthanide triflate catalyzed 1,3-dipolar cycloaddn. reactions,
stereoselective synthesis of indenoisoxazolidines)
RN 352000-69-2 CAPLUS
CN Acetamide,
N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-
2-(phenylmethyl)-2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX
NAME)

Relative stereochemistry.

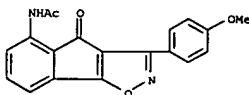


RN 352000-75-0 CAPLUS
CN Acetamide,
N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-
2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



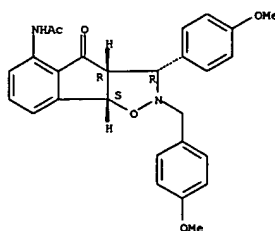
RN 352000-77-2 CAPLUS
CN Acetamide, N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-4H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR
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FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

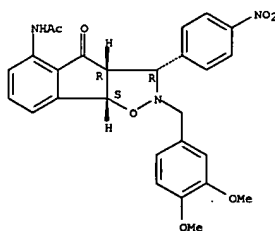
RN 352000-70-5 CAPLUS
CN Acetamide,
N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-2-[(4-
methoxyphenyl)methyl]-4-oxo-2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



RN 352000-72-7 CAPLUS
CN Acetamide, N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 352000-73-8 CAPLUS
CN Acetamide, N-[(3R,3aR,8bS)-3,3a,4,8b-tetrahydro-3-(4-methoxyphenyl)-4-oxo-2H-indeno[2,1-d]isoxazol-5-yl]-, rel- (9CI)
(CA INDEX NAME)

Relative stereochemistry.

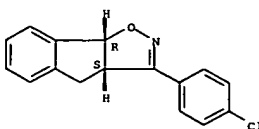
ACCESSION NUMBER: 1999:621500 CAPLUS
DOCUMENT NUMBER: 131:351263
TITLE: New method for synthesis of 4,5-dihydroisoxazoles in solid-liquid biphasic media and by ultrasonic activation
AUTHOR(S): Syassi, Bouazza; El Bakkali, Bouchra; Benabdellah, Ghita; Amine, Hassikou, Amina; Dinia, Mohamed Nacer; Riviere, Monique; Bougrin, Khalid; Soufissou, Mohamed
CORPORATE SOURCE: Laboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique, Université Mohammed V, Rabat, B.P. 1014 R.P., Morocco
SOURCE: Tetrahedron Letters (1999), 40(40), 7205-7209
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: French

AB A novel methodol. is developed for a one-pot synthesis of 4,5-dihydroisoxazoles. 1-Sodio-3,5-dichloro-s-triazine-2,4,6-trione, alumina, dichloromethane, arylaloximes, dipolarophiles and ultrasound irradiation are the leading ingredients in the success of this selective reaction. All heterocycles are obtained with good yields and high purity by comparison with classical stirring in the same conditions.

IT 200575-65-1P 250362-70-0P 250362-71-1P
250362-72-2P 250362-73-3P 250362-74-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of dihydroisoxazoles in solid-liquid biphasic media and under ultrasonic activation)

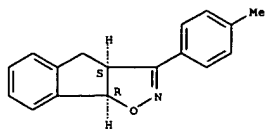
RN 200575-65-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)-3a,8b-dihydro-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



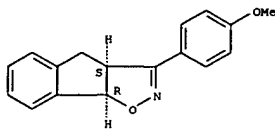
RN 250362-70-0 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(4-methylphenyl)-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



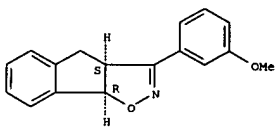
RN 250362-71-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(4-methoxyphenyl)-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 250362-72-2 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(3-methoxyphenyl)-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 250362-73-3 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(3,4-dimethoxyphenyl)-3a,8b-dihydro-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

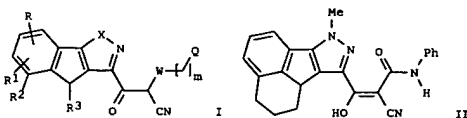
Relative stereochemistry.

L26 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN

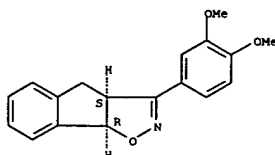
ACCESSION NUMBER: 1999:113652 CAPLUS
DOCUMENT NUMBER: 130:182459
TITLE: Preparation of condensed pyrazole compounds as a
kynurenine-3-hydroxylase inhibitors
INVENTOR(S): Varasi, Mario; Pevarello, Paolo; Heidempergher,
Franco; Toma, Salvatore; Speciale, Carmela
PATENT ASSIGNEE(S): Pharmacia & Upjohn S.p.A., Italy
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9906374	A1	19990211	WO 1998-EP4217	19980702
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GW, HU, ID, IL, IS, JP, KE, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2297096	AA	19990211	CA 1998-2297096	19980702
AU 9888066	A1	19990222	AU 1998-88066	19980702
EP 1001940	A1	20000524	EP 1998-939623	19980702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001512106	T2	20010821	JP 2000-505133	19980702
PRIORITY APPLN. INFO.: GB 1997-16103 A 19970730				
WO 1998-EP4217 W 19980702				

OTHER SOURCE(S): MARPAT 130:182459
GI

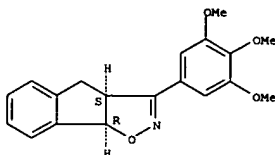


AB The title compds. (I; W = CONH, SO₂, CO; X = O, NR₄ (wherein R₄ = H, C1-6 alkyl, PhCH₂, etc.); R, R₁, R₂ = H, halo, OR, etc.; R₃ = H; R₂R₃ taken together = C2-6 alkylene, CH=CHCH₂, O(CH₂)_n chain in which n = 1-3; m = 0-6; Q = C1-14 alkyl, (un)substituted Ph ring or an unsatd. pentat. heteromonocyclic ring containing two or three heteroatoms which are the same or different and are chosen independently from O, S and N), useful as a kynurenine-3-hydroxylase inhibitors, were prepared and formulated. Thus, treatment of 2-cyano-N-phenyl-3-(7-methyl-2,3,7,9b-tetrahydro-1H-



RN 250362-74-4 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(3,4,5-trimethoxyphenyl)-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 6 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

acenaphthol[1,2-c]pyrazol-9-yl)-3-oxopropionamide (prepn. given) with 0.1 N NaOH in EtOH afforded acrylamide II as its sodium salt which showed

IC50

of 0.14 μM against KYN-3-OH.

IT 220504-21-2P 220504-22-3P 220504-23-4P

220504-36-9P 220504-37-0P

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of condensed pyrazole compds. as a

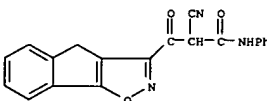
kynurenine-3-hydroxylase

inhibitors)

RN 220504-21-2 CAPLUS

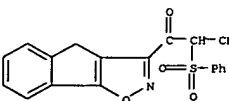
CN 4H-Indeno[2,1-d]isoxazole-3-propanamide, α-cyano-β-oxo-N-phenyl-

(9CI) (CA INDEX NAME)



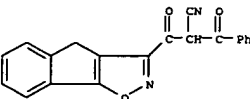
RN 220504-22-3 CAPLUS

CN 4H-Indeno[2,1-d]isoxazole-3-propanenitrile, β-oxo-α-(phenylsulfonyl)- (9CI) (CA INDEX NAME)



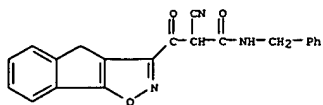
RN 220504-23-4 CAPLUS

CN 4H-Indeno[2,1-d]isoxazole-3-propanenitrile, α-benzoyl-β-oxo- (9CI) (CA INDEX NAME)

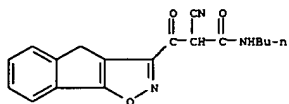


RN 220504-36-9 CAPLUS

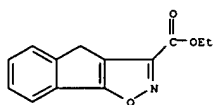
CN 4H-Indeno[2,1-d]isoxazole-3-propanamide, α-cyano-β-oxo-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



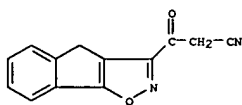
RN 220504-37-0 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole-3-propanamide, N-butyl-α-cyano-β-oxo- (9CI) (CA INDEX NAME)



IT 220504-38-1P 220504-39-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of condensed pyrazole compds. as a kynurenine-3-hydroxylase inhibitors)
RN 220504-38-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole-3-carboxylic acid, ethyl ester (9CI) (CA INDEX NAME)

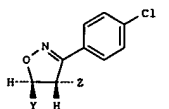


RN 220504-39-2 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole-3-propanenitrile, β-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

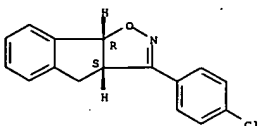
ACCESSION NUMBER: 1997:794721 CAPLUS
DOCUMENT NUMBER: 128:75333
TITLE: 1,3-Dipolar addition of aryl nitrile oxides to some olefinic dipolarophiles in the presence of alumina in dry medium and under microwave irradiation
AUTHOR(S): Syassi, Bouazza; Bougrin, Khalid; Soufiaooui, Mohamed
CORPORATE SOURCE: Lab. Chimie Plantes Synthèse Organique Bioorganique, Fac. Scis., Univ. Mohammed V., Rabat, 1014, Morocco
SOURCE: Tetrahedron Letters (1997), 38(51), 8855-8858
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Isoxazolines, e.g., I (Y = H, Ph, Z = CO₂Bu, CO₂Et, C₆H₅), are prepared in good yields on solid mineral support in "dry media" and under microwave irradiation in domestic ovens.

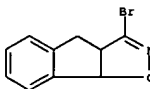
IT 200575-65-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(dipolar addition of aryl nitrile oxides to olefinic compds. under microwave irradiation to give isoxazolines)
RN 200575-65-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)-3a,8b-dihydro-, (3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

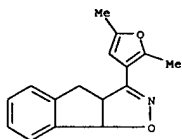
ACCESSION NUMBER: 1994:482236 CAPLUS
DOCUMENT NUMBER: 121:82236
TITLE: A new method for the preparation of β-hydroxy nitriles; transformation of 3-bromo-2-isoxazolines to β-hydroxy nitriles by treatment of alkanethiolates
AUTHOR(S): Seo, Min Hyo; Lee, Youn Young; Goo, Yang Mo
CORPORATE SOURCE: Dep. Chem., Seoul Natl., Seoul, 151-742, S. Korea
SOURCE: Synthetic Communications (1994), 24(10), 1433-9
CODEN: SYNCAY; ISSN: 0039-7911
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:82236
AB 3-Bromo-2-isoxazolines are transformed to β-hydroxy nitriles in good yields by treatment with alkanethiolates under a very mild condition.
IT 156458-62-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of, by sodium alkanethiolates, mechanism of β-hydroxy nitriles by)
RN 156458-62-7 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-bromo-3a,8b-dihydro- (9CI) (CA INDEX NAME)



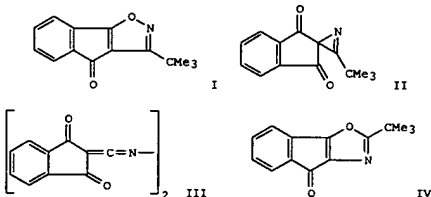
L26 ANSWER 9 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1991:559011 CAPLUS
 DOCUMENT NUMBER: 115:159011
 TITLE: 1,3-Bipolar cycloadditions of heterocycles. XXI. Cycloaddition of 2,5-dimethyl-3-furonitrile oxide with cyclic and heterocyclic compounds
 AUTHOR(S): Jedlovska, E.; Fiser, L.
 CORPORATE SOURCE: Fac. Chem. Technol., Slovak Tech. Univ., Bratislava, CS-812 37, Czech.
 SOURCE: Chemical Papers (1991), 45(3), 419-26
 CODEN: CHPAEG; ISSN: 0366-6352
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 115:159011
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

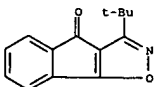
AB Cycloaddns. of 2,5-dimethyl-3-furonitrile oxide (I) to 1,3-cyclohexadiene, 1,3-cyclooctadiene, indene, acenaphthylene, 2,5-dihydrofuran, 2H,4H,7H-1,3-dioxepine, 1,4-epoxy-1,4-dihydronaphthalene, di-Me 7-oxabicyclo[2,2,1]hept-2-ene-5,6-dicarboxylate, di-Me 7-(diphenylmethylene)bicyclo[2,2,1]hept-2-ene-5,6-dicarboxylate, and di-Me 7-oxabicyclo[2,2,1]hept-2,3-diene-2,3-dicarboxylate, are described. Regio- as well as endo/exo selectivity of the reactions, giving adducts II-IV, is discussed. The formation of 1,3-addition products in cycloaddns. to conjugated dienes was not observed
 IT 136209-09-7P
 RL: SPN (Synthetic preparation); PREP (Preparation) (regio- and stereoselective preparation of, via bipolar cycloaddn. of dimethylfuronitrile oxide)
 RN 136209-09-7 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(2,5-dimethyl-3-furanyl)-3a,8b-dihydro- (9CI) (CA INDEX NAME)



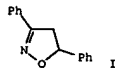
L26 ANSWER 11 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:55779 CAPLUS
 DOCUMENT NUMBER: 108:55779
 TITLE: Flash vacuum pyrolysis of 3-tert-butylindeno[1,2-c]isoxazol-4-one. Formation of 2-carbonyl-1,3-indandione 2-azine
 AUTHOR(S): Perez, Jorge D.; Wunderlin, Daniel A.; Lemke, Thomas L.; Sawhney, Kailash N.
 CORPORATE SOURCE: Inst. Invest. Fis. Quim., Fac. Cienc. Quim., Cordoba, 5.016, Argent.
 SOURCE: Journal of Heterocyclic Chemistry (1987), 24(4), 1073-6
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 108:55779
 GI



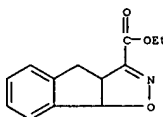
AB Flash vacuum pyrolysis (FVP) of the title isoxazolone (I) at 400° gave 35% azirene II and 65% azine III. At 500°, 70% III and 30% oxazolone IV were obtained. Similarly, FVP of II at 400° gave 17% III and 83% IV.
 IT 82501-33-5
 RL: RCT (Reactant); RACT (Reactant or reagent) (flash vacuum pyrolysis of)
 RN 82501-33-5 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



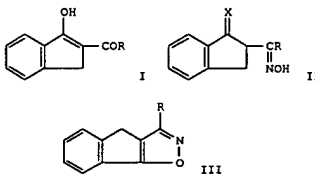
L26 ANSWER 10 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1988:437762 CAPLUS
 DOCUMENT NUMBER: 109:37762
 TITLE: New aspects in the hydrogenolytic opening of 2-isoxazolines
 AUTHOR(S): Auricchio, Sergio; Ricca, Aldo
 CORPORATE SOURCE: Dip. Chim., Politec. Milano, Milan, 20133, Italy
 SOURCE: Tetrahedron (1987), 43(17), 3983-6
 CODEN: TETRAB; ISSN: 0040-4020
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 109:37762
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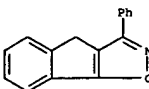
AB The regiochem. of the hydrogenolysis of 2-isoxazolines depends on the substituents present in positions 3 and 5. The hydrogenolysis on 10% Pd-C of 2-isoxazolines, substituted in position 3 with carbonyl or carboxyl groups and in position 5 with an aromatic group, gives oximes, in contrast to other isoxazoline derivs. From the 5-aryl-2-isoxazolines it is possible to obtain aminoalcs. in EtOH and oximes in AcOH. Thus diphenylisoxazole I was hydrogenated in EtOH to quant. give H2NCHPhCH2CH(OH)Ph, whereas in AcOH HON:CPhCH2CH2Ph was obtained.
 IT 115106-28-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrogenolysis of)
 RN 115106-28-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole-3-carboxylic acid, 3a,8b-dihydro-, ethyl ester (9CI) (CA INDEX NAME)



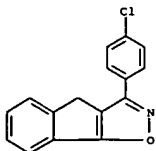
L26 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:571931 CAPLUS
 DOCUMENT NUMBER: 105:171931
 TITLE: Synthesis of novel indene derivatives
 AUTHOR(S): Samula, Kazimierz; Cichy, Bozena
 CORPORATE SOURCE: Inst. Pharm. Ind., Warsaw, 01-793, Pol.
 SOURCE: Acta Polonicae Pharmaceutica (1985), 42(3), 256-62
 CODEN: APPHAX; ISSN: 0001-6837
 DOCUMENT TYPE: Journal
 LANGUAGE: Polish
 OTHER SOURCE(S): CASREACT 105:171931
 GI



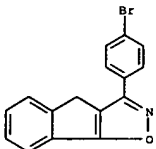
AB The indene derivs. I [R = 4-ClC6H4; 2-, 3-, and 4-pyridyl; 2,4-HO(MeO)C6H3; 2,4-(MeO)2C6H3; 2-thienyl] were prepared in 54-65% yields by the reaction of phthalaldehyde with RCOMe in 15% aqueous NaOH. I, refluxed with NH2OH·HCl in MeOH containing C5H5N, gave 55-81% II [R = 4-ClC6H4, 4-BrC6H4, 3- and 4-pyridyl, Ph, 2-HOC6H4, 2,4-HO(MeO)C6H3; X = O]. In a similar reaction using EtOH and morpholine, II [R = 2-pyridyl, 2,4-(MeO)2C6H3; X = NOH] were obtained in 65 and 60% yield, resp.; II (X = O) with polyphosphoric acid at 130° gave 62-80% indenoisoxazoles III [R = 4-ClC6H4, 4-BrC6H4, 3-pyridyl, Ph, 6-methoxy-2-naphthyl]. In preliminary pharmacol. tests with rats, I (R = 3-pyridyl) revealed some analgesic and myorelaxation activity and low toxicity.
 IT 16565-60-9P 36288-34-3P 104816-48-0P 104816-49-1P 104816-50-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 16565-60-9 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-phenyl- (8CI, 9CI) (CA INDEX NAME)



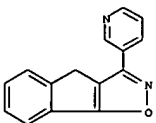
L26 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 RN 36288-34-3 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 104816-48-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(4-bromophenyl)- (9CI) (CA INDEX NAME)

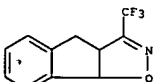


RN 104816-49-1 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(3-pyridinyl)- (9CI) (CA INDEX NAME)

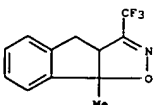


RN 104816-50-4 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(6-methoxy-2-naphthalenyl)- (9CI) (CA INDEX NAME)

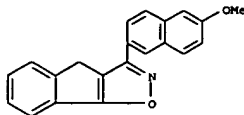
L26 ANSWER 13 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:109520 CAPLUS
 DOCUMENT NUMBER: 104:109520
 TITLE: A competition between 1,3-dipolar cycloaddition and substitution of trifluoroacetonitrile oxide
 AUTHOR(S): Tanaka, Kiyoshi; Masuda, Hideyuki; Mitsuhashi, Keiyo
 CORPORATE SOURCE: Dep. Ind. Chem., Seikei Univ., Musashino, 180, Japan
 SOURCE: Bulletin of the Chemical Society of Japan (1985), 58(7), 2061-5
 CODEN: BCSJAB; ISSN: 0009-2673
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 104:109520
 AB Reactions of F3CCNO with conjugated olefins such as styrenes, indenenes, and
 CH2:CR1:CHR2 (R = R1 = H, R2 = Me; R = Me, R1 = R2 = H; R = R1 = Me, R2 = H) gave not only the isoxazoline cycloadducts but also linear isomeric oximes. Me or Ph group attached to the unsatd. carbon of the dipolarophiles favored the formation of oxime. Similar competitions were also studied with cyclopentadiene and 1,3-cyclohexadiene where the competitive ratio of the products depended on the ring size.
 IT 100695-92-9P 100695-93-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 100695-92-9 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



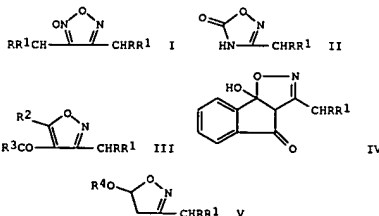
RN 100695-93-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-8b-methyl-3-(trifluoromethyl)- (9CI) (CA INDEX NAME)



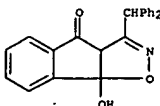
L26 ANSWER 12 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L26 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1984:120973 CAPLUS
 DOCUMENT NUMBER: 100:120973
 TITLE: 1,3-Dipolar cycloaddition of some diphenylacethydroxamic acid chlorides
 AUTHOR(S): Kaminski, Jerzy; Eckstein, Zygmunt
 CORPORATE SOURCE: Inst. Org. Chem. Technol., Polytech. Univ., Warsaw, 00662, Pol.
 SOURCE: Polish Journal of Chemistry (1982), 56(1), 221-8
 CODEN: PJCHDQ; ISSN: 0137-5083
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 100:120973
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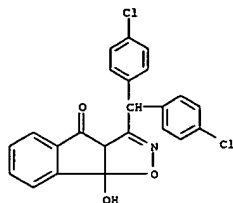


AB Reaction of RR1CHCCL:NOH (R, R1 = Ph, substituted Ph) with acid gave furoxanes I, whereas with KOON oxadiazoles II were obtained. Isoxazoles III (R2 = R3 = Me, R2R3 = CH2CMe2CH2) were formed from RR1CHCCL:NOH and R2COCH2COR3. Reaction with indandione similarly gave IV. Reaction of RR1CHCCL:NOH with R4OCH:CH2 (R4 = substituted Ph, 2-naphthyl) gave isoxazole V.
 IT 89249-60-5P 89249-61-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 89249-60-5 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(diphenylmethyl)-3a,8b-dihydro-8b-hydroxy- (9CI) (CA INDEX NAME)

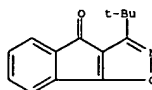


RN 89249-61-6 CAPLUS

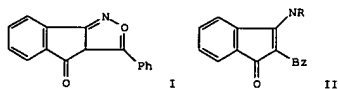
L26 ANSWER 14 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-[bis(4-chlorophenyl)methyl]-2a,8b-dihydro-8b-hydroxy- (9CI) (CA INDEX NAME)



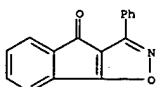
L26 ANSWER 15 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1984:34042 CAPLUS
 DOCUMENT NUMBER: 100:34042
 TITLE: Structure elucidation using signal intensity effects in carbon-13 nuclear magnetic resonance
 AUTHOR(S): Shapiro, M. J.; Kolpak, M. X.; Lemke, T. L. L.
 CORPORATE SOURCE: Dep. Pharm. Med. Chem., Sandoz Inc., East Hanover, NJ, 07936, USA
 SOURCE: Journal of Organic Chemistry (1984), 49(1), 187-9
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Methods for structure elucidation utilizing the perturbation of non-protonated carbon signal intensities are presented. The effects of exchange deuteration and the techniques of difference heteronuclear NOE are described.
 IT 82501-33-5
 RL: PRP (Properties)
 (structure elucidation of, proton-decoupled carbon-13 NMR and difference heteronuclear NOE in relation to)
 RN 82501-33-5 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



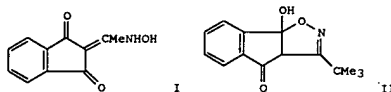
L26 ANSWER 16 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:612439 CAPLUS
 DOCUMENT NUMBER: 99:212439
 TITLE: Ring opening reactions of indeno[1,2-c]isoxazolones
 AUTHOR(S): Lemke, Thomas L.; Sawhney, Kallash N.
 CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
 SOURCE: Journal of Heterocyclic Chemistry (1983), 20(4), 899-901
 CODEN: JHTCAD; ISSN: 0022-152X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 99:212439
 GI



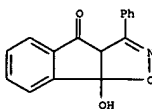
AB Nucleophilic attack of 8-substituted indeno[1,2-c]isoxazol-7-ones and 3-phenylindeno[1,2-c]isoxazol-4-one by Me2SO or PPh3 results in cleavage of the N-O bond of the isoxazole ring leading to the formation of sulfoximides and phosphazenes. Thus, treating indenoisoxazolone I with Me2SO and PPh3 gave II (R = NSOMe2, NPPH3), resp.
 IT 87885-97-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring cleavage of)
 RN 87885-97-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-phenyl- (9CI) (CA INDEX NAME)



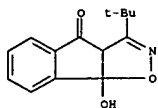
L26 ANSWER 17 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1983:594134 CAPLUS
 DOCUMENT NUMBER: 99:194134
 TITLE: Chemistry of β -triketones. 1. Structure of Schiff base intermediates of 2-acyl-1,3-indandiones
 AUTHOR(S): Sawhney, Kallash N.; Lemke, Thomas L.
 CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
 SOURCE: Journal of Organic Chemistry (1983), 48(23), 4326-9
 CODEN: JOCEAH; ISSN: 0022-3263
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 99:194134
 GI



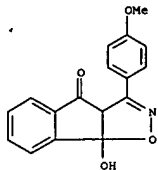
AB Schiff base formation occurs preferentially at the exocyclic carbonyl of 2-acyl-1,3-indandiones. The resulting addition product exists either as an open-chain compound (e.g., I) or a cyclic hemiketal (e.g., II). The size of the acyl substituent influences the structure of the Schiff bases.
 IT 62507-92-0P 87206-95-9P 87206-96-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and NMR of)
 RN 62507-92-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3a,8b-dihydro-8b-hydroxy-3-phenyl- (9CI) (CA INDEX NAME)



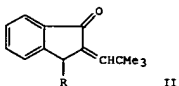
RN 87206-95-9 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(1,1-dimethylethyl)-3a,8b-dihydro-8b-hydroxy- (9CI) (CA INDEX NAME)



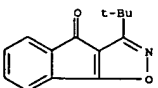
RN 87206-96-0 CAPLUS
CN 4H-Indeno[2,1-d]isoxazol-4-one, 3a,8b-dihydro-8b-hydroxy-3-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



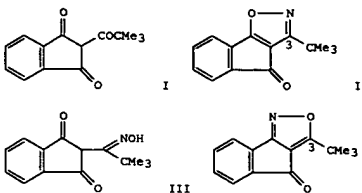
ACCESSION NUMBER: 1982:455721 CAPLUS
DOCUMENT NUMBER: 97:55721
TITLE: Synthesis and chemical reactivity of indenoisoxazoles
AUTHOR(S): Lemke, Thomas L.; Sawhney, Kailash N.; Lemke, B. Kaye
CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Journal of Heterocyclic Chemistry (1982), 19(2), 363-8
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 97:55721
GI



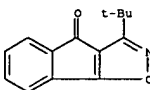
AB Treatment of 2-pivaloyl-1,3-indandione with NH₂OH under acidic conditions, results in formation of 8-tert-butylindeno[1,2-c]isoxazol-7-one (I) while at neutral or basic pH 3-tert-butylindeno[1,2-c]isoxazol-4-one was obtained. The latter compound was readily reduced to amine with N₂H₄ or H-Pt. The amine, although quite unreactive, was converted to 3-tert-butylindeno[1,2-c]pyrazol-4-one with N₂H₄ or reduced to II (R = H, OH) with Na-NH₃-Me₃COH. Surprisingly, the amine obtained from I gave II (R = H) from a Na-NH₃ reduction. Spectral evidence for each of the structures is discussed.
IT 82501-33-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reduction of)
RN 82501-33-5 CAPLUS
CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



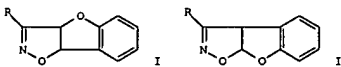
ACCESSION NUMBER: 1983:71358 CAPLUS
DOCUMENT NUMBER: 98:71358
TITLE: The utilization of chemical shift and spin-lattice (T₁) relaxation time data for the discrimination of isomeric indenoisoxazoles
AUTHOR(S): Womack, Charles H.; Gampe, Robert T., Jr.; Lemke, B. Kaye; Sawhney, Kailash N.; Lemke, Thomas L.; Martin, Gary E.
CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Journal of Heterocyclic Chemistry (1982), 19(5), 1105-7
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



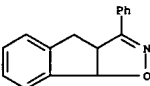
AB Treatment of I with NH₂OH under acidic conditions gave II. Similar reaction of I under neutral or basic conditions gave III which was cyclized to IV. ¹³C NMR was used to differentiate II from IV based on assignments made using T₁ relaxation as a guide; in the case of II the C(3) resonance is mediated by both the 14N-¹³C dipolar mechanism and by the nine Me₃C protons while the C(3) of IV is relaxed solely by the Me₃C protons. II and IV are also chemical differentiable.
IT 82501-33-5
RL: PRP (Properties)
- (carbon-13 NMR and spin-lattice relaxation of)
RN 82501-33-5 CAPLUS
CN 4H-Indeno[2,1-d]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



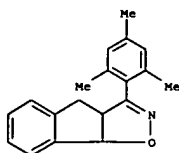
ACCESSION NUMBER: 1978:475171 CAPLUS
DOCUMENT NUMBER: 89:75171
TITLE: Selectivity in cycloadditions. 6. Cycloadditions of nitrile oxides to benzofuran. Regiochemistry
AUTHOR(S): Caramella, P.; Cellerino, G.; Houk, K. N.; Albini, F.
CORPORATE SOURCE: Dep. Chem., Louisiana State Univ., Baton Rouge, LA, USA
SOURCE: Journal of Organic Chemistry (1978), 43(15), 3006-10
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



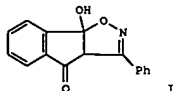
AB Cycloaddn. of RCNO (I; R = Ph, 2,4,6-Me₃C₆H₂) to benzofuran yielded the 2 regioisomeric cycloadducts in 70:30 and 26:74 ratio, resp. Frontier-orbital considerations, using ab initio STO-3G, CNDO/2 or EHMO calcs., and a comparison with the regioselectivities observed with indene and styrene allowed elucidation of the inversion of regiochem. of the cycloaddns. of I to benzofuran.
IT 27271-35-8P 61191-73-9P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 27271-35-8 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



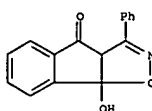
RN 61191-73-9 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



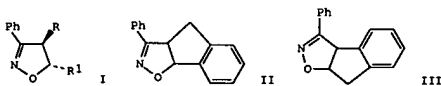
L26 ANSWER 21 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1977:155036 CAPLUS
 DOCUMENT NUMBER: 86:155036
 TITLE: Structure and properties of 2-acyl-1,3-indandione oximes
 AUTHOR(S): Geita, L.; Dalberg, I.; Grinvalde, A.
 CORPORATE SOURCE: Inst. Org. Sint., Riga, USSR
 SOURCE: Latvijas PSR Zinatnu Akademijas Vestis, Kimijas Serija
 (1976), (6), 704-7
 CODEN: LZAKAM; ISSN: 0002-3248
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 86:155036
 GI



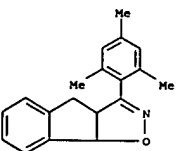
AB IR studies showed that the monooximes of 2-acetyl-1,3-indandione, its 4-NO₂, 4-NH₂, 4-OH, and 4-ACNH derivs., and 2-propionyl-1,3-indandione existed in the enol form and were strongly associated; that of 2-benzoyl-1,3-indandione had the cyclic structure I.
 IT 62507-92-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and mol. structure of)
 RN 62507-92-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3a,8b-dihydro-8b-hydroxy-3-phenyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1977:4459 CAPLUS
 DOCUMENT NUMBER: 86:4459
 TITLE: A2-Isioxazoline derivatives. Part X. 1,3-Dipolar cycloadditions of nitrone and nitrile oxides with indene, 1,2-dihydronaphthalene, and trans-1-phenylpropene
 AUTHOR(S): Bianchi, Giorgio; De Micheli, Carlo; Gandolfi, Remo
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Pavia, Pavia, Italy
 SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1976), (14), 1518-23
 CODEN: JCPRB4; ISSN: 0300-922X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI

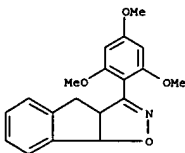


AB Reaction of cyclic and acyclic nitrones and nitrile oxides with 1,2-dihydronaphthalene, indene, and trans-MeCH:CHPh gave mixts. of regioisomers. E.g., PhC.tplbond.NO with trans-MeCH:CHPh gave 43.5% of a 66:34 mixture of isoxazolines I (R = Me, R1 = Ph; R = Ph, R1 = Me) and with indene 91% of a 98:2 mixture of II and III was formed. The results are analyzed on the basis of frontier orbital interactions and steric requirements of the reagents; transition state structures for the reactions are proposed.
 IT 61191-73-9P 61191-75-1P 61246-84-2P
 61246-85-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 61191-73-9 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



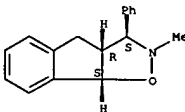
RN 61191-75-1 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(2,4,6-trimethoxyphenyl)- (9CI)

(CA INDEX NAME)



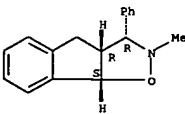
RN 61246-84-2 CAPLUS
 CN 2H-Indeno[2,1-d]isoxazole, 3,3a,4,8b-tetrahydro-2-methyl-3-phenyl-, (3a,3a',8b)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

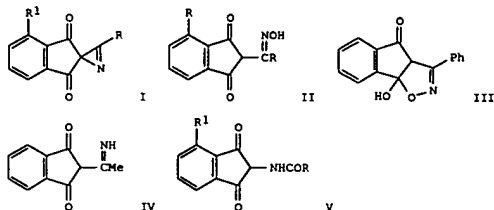


RN 61246-85-3 CAPLUS
 CN 2H-Indeno[2,1-d]isoxazole, 3,3a,4,8b-tetrahydro-2-methyl-3-phenyl-, (3a,3a',8b)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



ACCESSION NUMBER: 1976:420963 CAPLUS
 DOCUMENT NUMBER: 85:20963
 TITLE: Synthesis and study of 2,3'-spiro[indan-1,3-dione]-1'-azirines and products of their opening
 AUTHOR(S): Geita, L.; Dalberga, I.; Grinvalde, A.; Jankovska, I.
 CORPORATE SOURCE: Inst. Org. Sint., Riga, USSR
 SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1976), (1), 65-9
 CODEN: KGSSAQ; ISSN: 0132-6244
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 OTHER SOURCE(S): CASREACT 85:20963
 GI

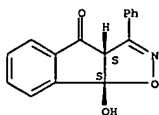


AB The title spiro compds. I (R = Me, Et, Pr; R1 = H, NO2) were prepared by cyclization of the acylindandione oximes II in HOAc-Ac2O or in acetone containing 4-MeC6H4SO2Cl; I (R = Ph; R1 = H) was prepared by rearrangement of III. Reduction of I (R = Me; R1 = H) by HI gave the imine IV, whereas cleavage of I in aqueous NaOH gave the indanyl amides V.

IT 59525-95-0
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cyclization of, spiro[indan-azirine] from)

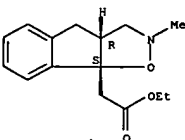
RN 59525-95-0 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazol-4-one, 3a,8b-dihydro-8b-hydroxy-3-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

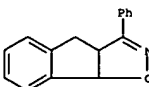


ACCESSION NUMBER: 1974:569425 CAPLUS
 DOCUMENT NUMBER: 81:169425
 TITLE: Tricyclic analogs of the prodines
 AUTHOR(S): Menard, Marcel; Rivest, Pierre; Morris, Lee; Meunier, Jacques; Perron, Yvon G.
 CORPORATE SOURCE: Bristol Lab. Canada, Candiac, QC, Can.
 SOURCE: Canadian Journal of Chemistry (1974), 52(12), 2316-26
 CODEN: CJCHAG; ISSN: 0008-4042
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Benzisquinolines I (R = H, COEt; R1 = R2 = H; R1 = Me, R2 = H, 7-OMe, 9-OMe; R3 = H, Me) were prepared as prodine and benzomorphan analogs. I (R = H) were obtained by cycloaddn. of Et 3,4-dihydro-1-naphthylacetate with CH2:N(O)Me, reductive cleavage of the isoxazolidine ring, cyclization of the amino esters, and reduction of the lactam O. I (R = Me) were prepared by treating tetralones II (R4R5 = O) with LiCH2CN, reducing II (R4 = OH, R5 = CH2CN) to I (R = R3 = H, R1 = Me, R2 = H, 7-OMe, 9-OMe), which were methylated and esterified. I (R = COEt, R1 = R2 = H, R3 = Me; R = H, R1 = Me, R2 = 7-OMe, R3 = H, Me; R = COEt, R1 = R3 = Me, R2 = H, 7-OMe, 9-OMe) had analgesic ED50 3-32 mg/kg s.c. in mice. Methylation of I (R = R, R1 = Me, R2 = 7-OMe, R3 = H) decreased the analgesic ED50 from 30 to 3 mg/kg. I (R = H, COEt, R1 = R2 = H, R3 = Me) had antidepressant ED50 in the reserpine hypothermic test in mice of 1 mg/kg orally.
 IT 54125-42-79
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reductive cleavage of)
 RN 54125-42-7 CAPLUS
 CN 8bH-Indeno[2,1-d]isoxazole-8b-acetic acid, 2,3,3a,4-tetrahydro-2-methyl-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



ACCESSION NUMBER: 1973:465646 CAPLUS
 DOCUMENT NUMBER: 79:65646
 TITLE: Selectivity in cycloadditions. III.
 AUTHOR(S): Bailo, Giorgio; Caramella, Pierluigi; Cellerino, Giuseppe; Invernizzi, Anna G.; Gruenanger, Paolo
 CORPORATE SOURCE: Ist. Chim. Org., Univ. Pavia, Pavia, Italy
 SOURCE: Gazzetta Chimica Italiana (1973), 103(1-2), 47-59
 CODEN: GCITA9; ISSN: 0016-5603
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI For diagram(s), see printed CA Issue.
 AB Treatment of benzohydroxamic acid chloride with Et3N in Et2O at 0° gave PhC.tplbond.NO which cyclo-added to cyclopentadiene to give 94% of a mixture of monoadducts containing 99% I and 1% II. Further cycloaddn. of PhC.tplbond.NO to I gave a mixture containing 30% anti-III, 45% anti-IV, 6% syn-III, and 19% syn-IV. Similarly, cycloaddn. to II gave a mixture containing 39% anti-IV, 43% anti-V, 18% syn-IV, and 0% syn-V. The cycloaddn. of PhC.tplbond.NO to indene also gave a mixture containing 98% VI and 2% VII. The x-configuration control of the highly regioselective cycloaddn. of PhC.tplbond.NO to cyclopentadiene and indene was contrasted to the lack of regiospecificity or -selectivity in the cycloaddn. of PhC.tplbond.NO to 6,6-dimethyl- and 6,6-diphenylfulvene. The frontier orbital interactions of PhC.tplbond.NO with indene and cyclopentadiene were discussed.
 IT 27271-35-89
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 27271-35-8 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L26 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1973:405352 CAPLUS
 DOCUMENT NUMBER: 79:5352
 TITLE: 1,2-Disubstituted indene compounds
 INVENTOR(S): Trepanier, Donald L.
 PATENT ASSIGNEE(S): Dow Chemical Co.
 SOURCE: U.S., 6 pp. Division of U.S. 3,636,116 (CA:112961q).
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3719674	A	19730306	US 1971-113744	19710208
US 3636116	A	19720118	US 1968-757102	19680903
PRIORITY APPLN. INFO.:			US 1968-757102	A3 19680903

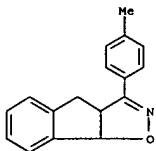
GI For diagram(s), see printed CA Issue.
 AB The indeno[2,1-d]isoxazoles (I, R = Cl, R1 = H; R = Me, R1 = H; R = R1 = H, Cl were prepared by treating benzylhydroxamic acid chlorides with indene.

LiAlH4 reduction of I gave the aminobenzylindanol II. II (R = Cl, R1 = H) was treated with NaOAc and BrCN to give [4-chloro-α-(1-hydroxy-2-indanyl)benzyl]cyanamide, which was treated with HCl to give the indeno[2,1-e][1,3]oxazine (III, R = Cl). III (R = H, Me) were similarly prepared. Mice rejected with I (R = R1 = H) (500 mg/kg and 100 mg/kg of hexobarbital slept more than twice as long as those treated only with hexobarbital. At 34 mg/kg II (R = Cl) protected mice from electroshock seizures. III (R = H) potentiated the hyperexcitement effects of d-amphetamine in mice.

IT 26718-19-4P 26718-32-1P 27271-35-8P

27271-38-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 26718-19-4 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(4-methylphenyl)- (9CI) (CA INDEX NAME)



RN 26718-32-1 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)-3a,8b-dihydro- (9CI) (CA INDEX NAME)

L26 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1972:112961 CAPLUS
 DOCUMENT NUMBER: 76:112961
 TITLE: Pharmacologically active 1,2-substituted indene compounds
 INVENTOR(S): Trepanier, Donald L.
 PATENT ASSIGNEE(S): Dow Chemical Co.
 SOURCE: U.S., 5 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3636116	A	19720118	US 1968-757102	19680903
US 3719674	A	19730306	US 1971-113744	19710208
PRIORITY APPLN. INFO.:			US 1968-757102	A3 19680903

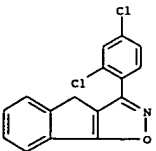
GI For diagram(s), see printed CA Issue.

AB Treatment of indene with substituted chlorobenzohydroxamoyl chlorides gave indenoisoxazoles (I, R1, R2, R3 = H, Cl, Br, Me), which were reduced to 2-(α-aminosubstituted benzyl)-1-indanols, which when treated with BrCN and cyclized, gave the indenoisoxazines (II, R1, R2, R3 = H, Cl, Br, Me). The compds. were amphetamine and barbiturate potentiators. Thus, Et3N was added to CHCl3 containing 4-chloro-benzohydroxamoyl chloride and indene and the mixture refluxed to give I (R1 = R3 = H, R2 = 4-Cl) (III). III was reduced by LiAlH4 in Et2O to give 2-(α-amino-4-chlorobenzyl)-1-indanol, which when administered to mice at 65 mg/kg with hexobarbital, doubled the mice sleep time. Five other I, 3 indanols, 3 BrCN-indanol reaction products, and 4 II were prepared.

IT 36288-38-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

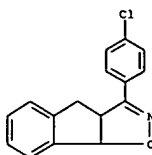
RN 36288-38-7 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(2,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



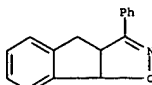
IT 36288-34-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reduction of)

RN 36288-34-3 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)- (9CI) (CA INDEX NAME)

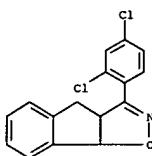
L26 ANSWER 26 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



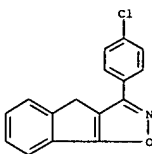
RN 27271-35-8 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 27271-38-1 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3-(2,4-dichlorophenyl)-3a,8b-dihydro- (8CI, 9CI) (CA INDEX NAME)



L26 ANSWER 27 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



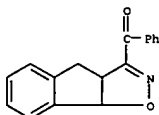
L26 ANSWER 28 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1971:141643 CAPLUS
DOCUMENT NUMBER: 74:141643
TITLE: Heteroaromaticity. XLIV. Reactivities of benzoyl cyanide N-oxide and some derivatives therefrom
AUTHOR(S): Sasaki, Tadashi; Yoshioka, Toshiyuki; Suzuki, Yasuyuki
CORPORATE SOURCE: Inst. Appl. Org. Chem., Nagoya Univ., Nagoya, Japan
SOURCE: Bulletin of the Chemical Society of Japan (1971), 44(1), 185-9
CODEN: BCSJAB; ISSN: 0009-2673

DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 74:141643

AB O-Chloroisnitrosoacetophenone (I) was treated with ethylenic and acetylenic dipolarophiles to give 3-benzoylisoxazolidines and -isoxazoles.
resp. With m-nitrobenzonitrile, I yielded 3-benzoyl-5-(m-nitrophenyl)-1,2,4-oxadiazole. The phenylhydrazones of the 3-benzoylisoxazole and -oxadiazole thus produced were converted into the corresponding 1,2,3-triazoles thermally or by treatment with a base. The photoinduced rearrangement of 3-benzoyl-5-phenylisoxazole gave 2-benzoyl-5-phenyloxazole. Treatment of I with aziridine gave an aziridine oxime, which was converted into 2-benzoyloxazoline.

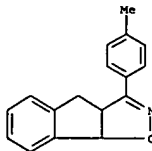
IT 31879-30-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 31879-30-8 CAPLUS
CN Ketone, 3a,8b-dihydro-4H-indeno[2,1-d]isoxazol-3-yl phenyl (8CI) (CA INDEX NAME)



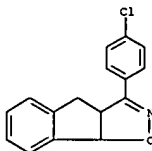
L26 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:435300 CAPLUS
DOCUMENT NUMBER: 73:35300
TITLE: Synthesis and screening for antidepressant activity of some aminoindanooxazolines, aminoindanooxazines, and aminoacenaphthooxazolines
AUTHOR(S): Trepanier, Donald L.; Faith, H. Eldridge; Eble, John N.
CORPORATE SOURCE: Chem. Res. and Pharmacol. Dep., Dow Chem. Co., Zionsville, IN, USA
SOURCE: Journal of Medicinal Chemistry (1970), 13(4), 729-33
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Some aminoindanooxazolines, aminoindanooxazines, and aminoacenaphthooxazolines with spatial orientations similar to those of the tricyclic drugs were synthesized and tested for potential antidepressant activity. None were able to prevent reserpine ptosis. Some potentiated d-amphetamine toxicity and prolonged hexobarbital sleep time in mice.
IT 26718-19-4 26718-32-1 27271-35-8 27271-38-1
RL: RCT (Reactant); RACT (Reactant or reagent) (antidepressants)
RN 26718-19-4 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(4-methylphenyl)- (9CI) (CA INDEX NAME)

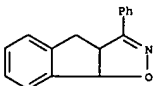


RN 26718-32-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(4-chlorophenyl)-3a,8b-dihydro- (9CI) (CA INDEX NAME)

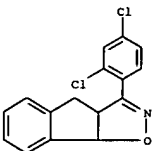


RN 27271-35-8 CAPLUS

L26 ANSWER 29 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



RN 27271-38-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(2,4-dichlorophenyl)-3a,8b-dihydro- (8CI, 9CI) (CA INDEX NAME)



L26 ANSWER 30 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1970:43542 CAPLUS
DOCUMENT NUMBER: 72:43542
TITLE: Heteroaromaticity. XXXV. Thermal 1,3-cycloaddition of aromatic hydroxamoyl chlorides with cyclic olefins
AUTHOR(S): Sasaki, Tadashi; Yoshioka, Toshiyuki; Suzuki, Yasuyuki
CORPORATE SOURCE: Nagoya Univ., Nagoya, Japan
SOURCE: Yuki Gosei Kagaku Kyokaiishi (1969), 27(10), 998-9
CODEN: YGKKAE; ISSN: 0037-9980
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI For diagram(s), see printed CA Issue.
AB 5-Nitro-2-furanhydroxamoyl chloride (I) (0.95 g) and 0.75 g acenaphthylene in 30 ml PhMe were refluxed 10 hr to give 0.3 g II (R1 = 5-nitro-2-furyl), m. 208-9° (C6H6). Similarly, the following II were prepared (R1, m.p., and % yield given): p-O2NC6H4, 274-6°, 50; m-O2N-C6H4, 164-6°, 50; and Ph, 207-9°, 60. Similar treatment of I with indene gave 80% III (R2 = 5-nitro-2-furyl), m. 234-6°. Similarly, the following III were prepared (R2, m.p., and % yield given):

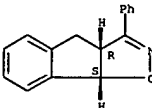
p-O2NC6H4, 222-4°, 65; m-O2NC6H4, 148-50°, 65; and Ph, 139-41°, 45. They were shown to have a common isoxazoline structure on the basis of the anal. and spectral data.

IT 20087-23-4P 25471-27-6P 25471-28-7P

25471-29-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

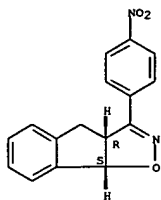
RN 20087-23-4 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl-, cis- (8CI) (CA INDEX NAME)

Relative stereochemistry.



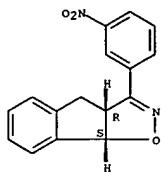
RN 25471-27-6 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(p-nitrophenyl)- (8CI) (CA INDEX NAME)

Relative stereochemistry.



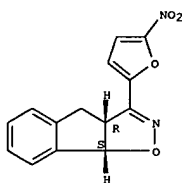
RN 25471-29-7 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(m-nitrophenyl)- (8CI) (CA INDEX NAME)

Relative stereochemistry.

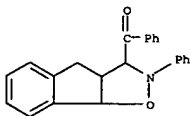


RN 25471-29-8 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-(5-nitro-2-furyl)- (8CI) (CA INDEX NAME)

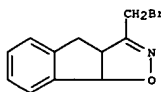
Relative stereochemistry.



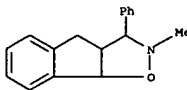
ACCESSION NUMBER: 1969:115043 CAPLUS
DOCUMENT NUMBER: 70:115043
TITLE: 1,3-Dipolar cycloaddition. I. Characterization of unsaturated compounds as acylnitrone adducts
AUTHOR(S): Huisgen, Rolf; Hauck, Hans; Seidl, Helmut; Burger, Monika
CORPORATE SOURCE: Univ. Muenchen, Munich, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1969), 102(4), 1117-28
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 70:115043
GI For diagram(s), see printed CA issue.
AB p-RC6H4COCH=N+PhO- (I) (R = H or NO2) reacted rapidly with unsatd. compds., such as α,β -unsatd. carboxylic acid esters, ketones, and nitriles to give crystalline 1,3-cycloadducts. Thus, the reaction of I (R = H) with CH₂:CHCO₂Me gave Me 2-phenyl-3-benzoylisoxazolidine-5-carboxylate (II). 2-Phenylisatogen was less suited for the characterization of C-C double bonds.
IT 22269-80-3P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 22269-80-3 CAPLUS
CN Ketone, phenyl
3,3a,4,8b-tetrahydro-2-phenyl-2H-indeno[2,1-d]isoxazol-3-yl- (8CI) (CA INDEX NAME)



ACCESSION NUMBER: 1969:476043 CAPLUS
DOCUMENT NUMBER: 71:76043
TITLE: Molecular spectroscopy
AUTHOR(S): Rollier, Mario A.
CORPORATE SOURCE: Univ. Pavia, Pavia, Italy
SOURCE: Corsi e Seminari di Chimica, Consiglio Nazionale delle
Ricerche e Fondazione F. Giordani (1968), No. 14, 92-3
CODEN: CSECB7; ISSN: 0579-0670
DOCUMENT TYPE: Journal
LANGUAGE: Italian
AB An account is given of work relating to the spectral anal. of 2-isoxazole derivs. and to N.M.R. applications for determination of partition coeffs. of BF₃ between various solvents and for H-bond investigation.
IT 24383-88-8
RL: AMT (Analyte); ANST (Analytical study) (determination of, spectrochem.)
RN 24383-88-8 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-(bromomethyl)-3a,8b-dihydro- (8CI) (CA INDEX NAME)



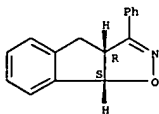
ACCESSION NUMBER: 1968:452052 CAPLUS
DOCUMENT NUMBER: 69:52052
TITLE: 1,3-Dipolar cycloadditions. XLII. Nitron additions to other aryl-conjugated ethylenes and vinyl ethers
AUTHOR(S): Huisgen, Rolf; Grashey, Rudolf; Seidl, Helmut; Hauck, Hans
CORPORATE SOURCE: Univ. Muenchen, Munich, Fed. Rep. Ger.
SOURCE: Chemische Berichte (1968), 101(7), 2559-67
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 69:52052
AB α -Methylstyrene and 1,1-diphenylethylene added to nitrones to give 5,3-disubstituted-isoxazolidines. Their structures were established by N.M.R. and chemical degradation methods. Similar adducts were obtained with 2-vinyl-pyridine, indene, 1,2-dihydronaphthalene, acenaphthylene, and with alkoxy-substituted ethylenes, such as butyl vinyl ether.
IT 19380-34-8P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
RN 19380-34-8 CAPLUS
CN 2H-Indeno[2,1-d]isoxazole, 3,3a,4,8b-tetrahydro-2-methyl-3-phenyl- (8CI) (CA INDEX NAME)



L26 ANSWER 34 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN

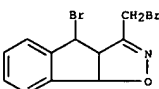
ACCESSION NUMBER: 1968:427307 CAPLUS
DOCUMENT NUMBER: 69:27307
TITLE: NMR spectra of 2-isoxazolines. II. Cis-trans isomers
AUTHOR(S): of 4,5-disubstituted 2-isoxazolines
Aversa, Maria Chiara; Cum, Giampietro; Crisafulli, Maria
CORPORATE SOURCE: Univ. Messina, Messina, Italy
SOURCE: Gazzetta Chimica Italiana (1968), 98(1), 42-7
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB N.M.R. data for compds. of the general formula cis-I and trans-I and compound II in CDCl₃ are obtained and are useful for structure assignment.
trans-3,4,5-Triphenyl-2-isoxazoline, and the following trans-I (R and R₁ given) are prepared: CO₂Me, Ph; CO₂Et, Ph; CO₂Me, CO₂Me; CO₂CH₂Ph, CO₂CH₂Ph;
tert-BuCO, Ph; Ac, Ph; Ac, p-O₂NC₆H₄; p-O₂NC₆H₄, Ac; Bz, o-O₂NC₆H₄; Bz, p-O₂NC₆H₄; p-O₂NC₆H₄, Bz. Also prepared were II and the following cis-I
(R and R₁ given) according to known methods: Ph, Ph; Ph, CO₂Me; CO₂Et, Ph; CO₂Me; CO₂CH₂Ph, CO₂CH₂Ph.
IT 20087-23-4
RL: PRP (Properties)
(nuclear magnetic resonance of)
RN 20087-23-4 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl-, cis- (8CI) (CA INDEX NAME)

Relative stereochemistry.

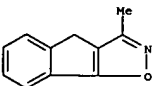


L26 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 16565-56-3 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 4-bromo-3-(bromomethyl)-3a,8b-dihydro- (8CI) (CA INDEX NAME)



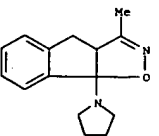
RN 16565-57-4 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-methyl- (8CI) (CA INDEX NAME)



RN 16565-58-5 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-methyl-8b-(1-pyrrolidinyl)-, monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 46849-31-4
CMF C15 H18 N2 O



CM 2

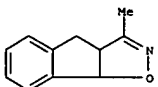
CRN 74-88-4
CMF C H3 I

H₃C-I

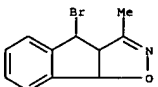
RN 16565-60-9 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3-phenyl- (8CI, 9CI) (CA INDEX NAME)

L26 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1967:500043 CAPLUS
DOCUMENT NUMBER: 67:100043
TITLE: Indenoisoxazole derivatives
AUTHOR(S): Bianchi, Giorgio; Gandolfi, Remo; Gruenanger, Paolo; Perotti, Angelo
CORPORATE SOURCE: Univ. Pavia, Pavia, Italy
SOURCE: Journal of the Chemical Society [Section] C: Organic (1967), (17), 1598-602
CODEN: JSOQAX; ISSN: 0022-4952

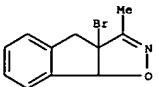
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 67:100043
GI For diagram(s), see printed CA Issue.
AB From the cycloaddn. of acetonitrile N-oxide with indene two isomeric methylidihydroindenoisoxazoles (I and II) were isolated. Elucidation of their structures by bromination and 1H N.M.R. spectroscopy, and related reactions on analogous compds. are described. 17 references.
IT 16565-52-9P 16565-54-1P 16565-55-2P
16565-56-3P 16565-57-4P 16565-58-5P
16565-60-9P 16565-61-0P 16565-62-1P
16565-71-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 16565-52-9 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-methyl- (8CI) (CA INDEX NAME)



RN 16565-54-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 4-bromo-3a,8b-dihydro-3-methyl- (8CI) (CA INDEX NAME)

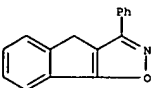


RN 16565-55-2 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a-bromo-3a,8b-dihydro-3-methyl- (8CI) (CA INDEX NAME)



L26 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

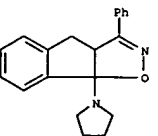
RN 16565-61-0 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl-8b-(1-pyrrolidinyl)- (8CI) (CA INDEX NAME)



RN 16565-62-1 CAPLUS
CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl-8b-(1-pyrrolidinyl)-, monomethiodide (8CI) (CA INDEX NAME)

CM 1

CRN 16565-61-0
CMF C20 H20 N2 O



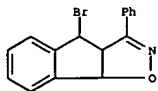
CM 2

CRN 74-88-4
CMF C H3 I

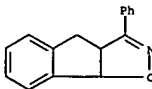
H₃C-I

RN 16565-71-2 CAPLUS

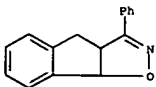
L26 ANSWER 35 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
 CN 4H-Indeno[2,1-d]isoxazole, 4-bromo-3a,8b-dihydro-3-phenyl- (8CI) (CA
 INDEX NAME)



L26 ANSWER 36 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1958:6351 CAPLUS
 DOCUMENT NUMBER: 52:6351
 ORIGINAL REFERENCE NO.: 52:1145b-c
 TITLE: Structure of the adduct of benzonitrile oxide to indene, and the synthesis of 1- and 2-benzoylindan
 AUTHOR(S): Perold, G. W.; v. Reiche, F. V. K.
 CORPORATE SOURCE: S. A. Iron and Steel Ind. Corp., Ltd., Pretoria
 SOURCE: Journal of the South African Chemical Institute (1957), 10, 5-10
 CODEN: JSACAT; ISSN: 0038-2078
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB Refluxing constant-boiling HI cleaves the 2-isoxazoline, obtained by addition of benzonitrile oxide to indene, to 2-benzoylindan. The addition follows the Markownikoff rule and leads to 3-phenyl-4,5-(2,1-indano)-2-isoxazoline. The nature of the cleavage reaction by-products is discussed. A description is made of the synthesis of the 1- and 2-benzoylindans by the reaction of Ph2Cd with the corresponding acid chlorides. 15 references.
 IT 27271-35-8, 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (preparation of)
 RN 27271-35-8 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



L26 ANSWER 37 OF 37 CAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1957:34809 CAPLUS
 DOCUMENT NUMBER: 51:34809
 ORIGINAL REFERENCE NO.: 51:6603f-1
 TITLE: Structure of isoxazoline compounds: a spectral study
 AUTHOR(S): Perold, G. W.; Steyn, A. P.; v. Reiche, F. V. K.
 CORPORATE SOURCE: S. African Iron and Steel Ind. Corp., Ltd., Pretoria
 SOURCE: Journal of the American Chemical Society (1957), 79, 462-5
 CODEN: JACSAT; ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 OTHER SOURCE(S): CASREACT 51:34809
 AB Cl passed through 10.0 cc. PhCH:NOH in 60 cc. about 8.3N HCl at 0° during 15-20 min. and filtered yielded up to 76% benzhydroxamic chloride (I), m. 42-8°. I (10.7 g.) and 7.2 g. styrene in 50 cc. Et2O treated at 0° gradually with 45 cc. 14% aqueous NaOH, and the Et2O solution washed with H2O after 15 min., kept overnight, and evaporated yielded 3,5-diphenyl-2-isoxazoline (II), needles, m. 76° (from EtOH). Similarly were prepared: 5-(p-tolyl) analog of II, m. 94°, 96% yield; 5-Me derivative of II, m. 76°, 60% yield; 3-phenyl-4,5-indano-2-isoxazoline, m. 134°, 66% yield; 3-phenyl-4,5-(dicyclopentadieno)-2-isoxazoline, m. 110-11°, 40% yield. Ph(CH2)2Bz reduced with LiAlH4 gave 86% Ph(CH2)2CH(OH)Ph (III). III (5.23 g.) and 5.23 g. (CO2H)2 heated 0.5 hr. at 130-80°, kept 2 hrs. at 180°, and chromatographed on Al2O3 yielded 5.0 g. crude product which distilled gave 4.0 g. PhCH:CHCH2Ph, b.p. 120-30° (bath), nD20 1.6000. BzH (20 g.) mixed carefully with 25 g. 33% aqueous MeNH2, the H2O removed azeotropically with C6H6, the liquid residue treated 1.5 hrs. at room temperature with a large excess of NH2OH.HCl and aqueous NaOH, and the product isolated with C6H6 yielded 61% benzylidene methylamine, b.p. 99-103° (bath), nD17 1.5522. By the method of Janny [Ber. 16, 174 (1833)] were prepared the following compds. PhRC:NOR' [R, R', 1 yield, and b.p. (bath)/mm. given]: Me, Me, 33, 132-5°/46; Me, PhCH2, 72, 115-19°/0.1; PhCH2CH2, Me, 20, 110°/0.1. The ultraviolet absorption maximum and the infrared absorption maximum in the 1560-1610 cm.-1 region are tabulated.
 IT 27271-35-8, 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (preparation of)
 RN 27271-35-8 CAPLUS
 CN 4H-Indeno[2,1-d]isoxazole, 3a,8b-dihydro-3-phenyl- (6CI, 8CI, 9CI) (CA INDEX NAME)



=> s 19

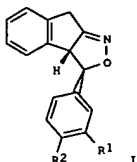
L28 2 L9

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L28 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:131886 CAPLUS

DOCUMENT NUMBER: 137:6110
TITLE: Transformation of phthalaldehyde to indenoisoxazole derivatives
AUTHOR(S): Dhar, Mita; Bhattacharjya, Anup
CORPORATE SOURCE: Indian Institute of Chemical Biology, Calcutta, 700032, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2001), 40B(11), 1140-1143
CODEN: IJSCDB; ISSN: 0376-4699

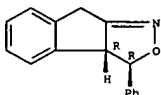
PUBLISHER: National Institute of Science Communication
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:6110
GI



AB Phthalaldehyde was converted to 1-stilbenyl-2-nitroethane derivs., which afford 3-arylindenoisoxazoles via silylnitronate or nitrile oxide cycloaddn. reactions. The compds. thus prepared included indenoisoxazoles I.

(R1 = R2 = H; R1 = OMe, R2 = OCH2Ph).
IT 433214-89-2P 433214-91-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(transformation of phthalaldehyde into 3a,8-dihydro-3-phenyl-3H-indeno[2,1-c]isoxazole deriva.)
RN 433214-89-2 CAPLUS
CN 3H-Indeno[2,1-c]isoxazole, 3a,8-dihydro-3-phenyl-, (3R,3aR)-rel- (9CI) (CA INDEX NAME)

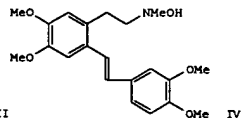
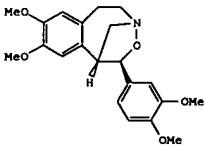
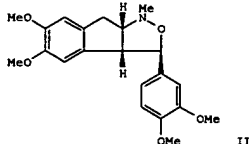
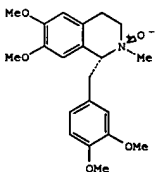
Relative stereochemistry.



RN 433214-91-6 CAPLUS
CN 3H-Indeno[2,1-c]isoxazole, 3a,8-dihydro-3-[3-methoxy-4-(phenylmethoxy)phenyl]-, (3R,3aR)-rel- (9CI) (CA INDEX NAME)

L28 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1980:532663 CAPLUS

DOCUMENT NUMBER: 93:132663
TITLE: The characterization and thermolysis of cis- and trans-(1)-laudanoline N-oxide
AUTHOR(S): Bremner, John B.; Le Van Thuc
CORPORATE SOURCE: Dep. Chem., Univ. Tasmania, Hobart, 7001, Australia
SOURCE: Australian Journal of Chemistry (1980), 33(2), 379-94
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



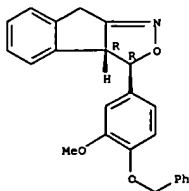
AB The isolation and characterization of cis-(I) and trans-(1)-laudanoline N-oxide is described. Thermolysis of I afforded the new fused and bridged heterocyclic derivs. II and III. Other products included (1)-laudanoline, the Cope elimination product, IV, and 1-(3,4-dimethoxybenzyl)-7,8-dimethoxy-3-methyl-1,3,4,5-tetrahydro-2,3-benzoxazepine, the product of a Helsenheimer rearrangement. By contrast, trans-(1)-laudanoline N-oxide gave IV in nearly quant. yield. Some of the possible mechanistic implications of these results are discussed.

IT 74904-75-9P 74904-76-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 74904-75-9 CAPLUS
CN 1H-Indeno[2,1-c]isoxazole, 3-(3,4-dimethoxyphenyl)-3,3a,8,8a-tetrahydro-5,6-dimethoxy-1-methyl-, (3a,3aa,8aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

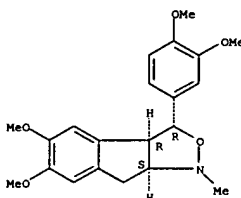
L28 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

Relative stereochemistry.



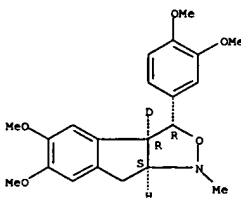
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L28 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 74904-76-0 CAPLUS
CN 1H-Indeno[2,1-c]isoxazole, 3-(3,4-dimethoxyphenyl)-3,3a,8,8a-tetrahydro-3a-d-5,6-dimethoxy-1-methyl-, (3a,3aa,8aa)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



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L29 7 L15

=> d ibib abs hitstr 1-7

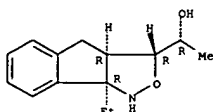
L29 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS ON STN

ACCESSION NUMBER: 2005:252046 CAPLUS
DOCUMENT NUMBER: 142:482283
TITLE: Succinct Synthesis of β -Amino Acids via Chiral Isoxazolines
AUTHOR(S): Fuller, Amelia A.; Chen, Bin; Minter, Aaron R.; Mapp, Anna K.
CORPORATE SOURCE: Department of Chemistry, University of Michigan, Ann Arbor, MI, 48109-1055, USA
SOURCE: Journal of the American Chemical Society (2005), 127(15), 5376-5383
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB β -Amino acids are important synthetic targets due to their presence in a wide variety of natural products, pharmaceutical agents, and mimics of protein structural motifs. While β -amino acids containing geminal substitution patterns have enormous potential for application in these contexts, synthetic challenges to the stereoselective preparation of this class of compound have thus far limited more complete studies. A straightforward method is presented, employing chiral isoxazolines as key intermediates to access five different β -amino acid structural types with excellent selectivity. Of particular note is the use of this approach to prepare highly substituted cis- β -proline analogs. The ready access to these diversely substituted compounds is expected to facilitate future studies of the structure and function of this important class of molecules.

IT 851985-42-7P 851985-46-1P 851985-50-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
RN 851985-42-7 CAPLUS
CN 1H-Indeno[1,2-c]isoxazole-3-methanol, 8b-ethyl-3,3a,4,8b-tetrahydro- α -methyl-, (aR,3R,3aR,8bR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 851985-46-1 CAPLUS
CN 1H-Indeno[1,2-c]isoxazole-3-methanol, 3,3a,4,8b-tetrahydro- α -methyl-8b-(2-methylpropyl)-, (aR,3R,3aR,8bR)-rel- (9CI) (CA INDEX NAME)

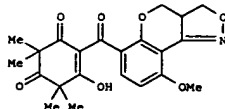
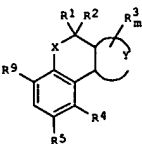
Relative stereochemistry.

L29 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS ON STN

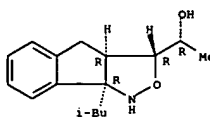
ACCESSION NUMBER: 2000:861685 CAPLUS
DOCUMENT NUMBER: 134:29409
TITLE: Preparation of tricyclic aroylcyclohexanediones as herbicides
INVENTOR(S): Witschel, Matthias; Kudis, Steffen; Langemann, Klaus; Baumann, Ernst; Von Deyn, Wolfgang; Mayer, Guido; Miaslitz, Ulf; Neidlein, Ulf; Otten, Martina; Westphalen, Karl-Otto; Walter, Helmut
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000073311	A2	20001207	WO 2000-EP4806	20000526
WO 2000073311	A3	20010419		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, GR, GU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2372241	A2	20001207	CA 2000-2372241	20000526
EP 1181295	A2	20020227	EP 2000-940273	20000526
EP 1181295	B1	20040218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000011109	A	20020319	BR 2000-11109	20000526
JP 2003501359	T2	20030114	JP 2001-500636	20000526
AT 259816	E	20040315	AT 2000-940273	20000526
AU 782843	B2	20050901	AU 2000-55260	20000526
US 6583089	B1	20030624	US 2001-979991	20011129
ZA 2001009886	A	20021202	ZA 2001-9886	20011130
PRIORITY APPL. INFO.: DE 1999-19925103 A 19990601				
WO 2000-EP4806 W 20000526				

OTHER SOURCE(S): MARPAT 134:29409
GI

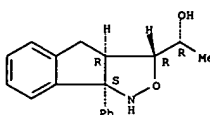


L29 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)



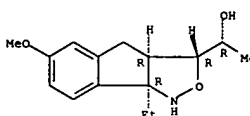
RN 851985-50-7 CAPLUS
CN 1H-Indeno[1,2-c]isoxazole-3-methanol, 3,3a,4,8b-tetrahydro- α -methyl-8b-phenyl-, (aR,3R,3aR,8bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 851985-62-1 CAPLUS
CN 1H-Indeno[1,2-c]isoxazole-3-methanol, 8b-ethyl-3,3a,4,8b-tetrahydro-6-methoxy- α -methyl-, (aR,3R,3aR,8bR)-rel- (9CI) (CA INDEX NAME)

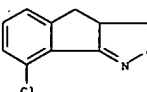
Relative stereochemistry.



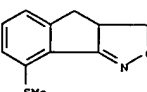
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L29 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS ON STN (Continued)

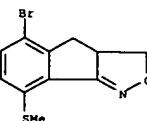
AB Title compds. (I; RR3 = atoms to complete an (un)substituted heterocyclic or -heteroarom. ring; R1,R2 = H, halo, alkyl; alkoxy, etc.; R5 = H, halo, alkyl; R9 = e.g., (un)substituted 2-hydroxy-6-oxocyclohexen-1-ylcarbonyl; Z = bond, O, SOO-2, CH2, (alkyl)imino, etc.) were prepared as herbicides (no data). Thus, Me 2-hydroxy-4-methoxybenzoate was converted in 7 steps to title compound II.
IT 293312-27-3P 293312-28-4P 293312-29-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tricyclic aroylcyclohexanediones as herbicides)
RN 293312-27-3 CAPLUS
CN 3H-Indeno[1,2-c]isoxazole, 8-chloro-3a,4-dihydro- (9CI) (CA INDEX NAME)



RN 293312-28-4 CAPLUS
CN 3H-Indeno[1,2-c]isoxazole, 3a,4-dihydro-8-(methylthio)- (9CI) (CA INDEX NAME)



RN 293312-29-5 CAPLUS
CN 3H-Indeno[1,2-c]isoxazole, 5-bromo-3a,4-dihydro-8-(methylthio)- (9CI) (CA INDEX NAME)

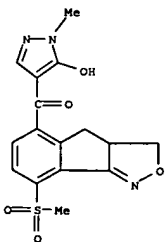


IT 293312-30-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of tricyclic aroylcyclohexanediones as herbicides)
RN 293312-30-8 CAPLUS

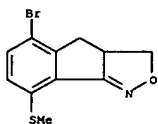
CN1C2C(C1)c3cc(Br)ccc3S(=O)(=O)C2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000051518	A1	20000921	WO 2000-EP2010	20000308
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MX, MY, NZ, PL, PT, RU, SD, SE, SG, SI, SK, SL, TJ, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
AM, AL, AY, BG, KZ, MD, RU, TJ, TH				
RW:	GH, GM, KE, MG, MW, NI, NG, NO, NP, NZ, OM, PA, PE, PG, PH, PK, PL, PT, RW, SD, SE, SG, SI, SK, SL, TJ, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, ML, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2367672	AA	20000921	CA 2000-236762	20000308
EP 1163240	A1	20011219	EP 2000-915171	20000308
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002539211	T2	20021119	JP 2000-605587	20000308
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			WO 2000-EP2010	W 20000312

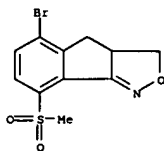
L29 ANSWER 3 OF 7 CAPLUS. COPYRIGHT 2005 ACS ON STN (Continued)
R6, R7 = H, alkyl, haloalkyl, alkoxy, haloalkoxy; R3 = halo, alkyl, haloalkyl, alkoxy, haloalkoxy; R4 = H, NO2, halo, cyano, alkyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfanyl, haloalkylsulfanyl, alkylsulfonyl, haloalkylsulfonyl, (substituted) aminosulfonyl; R5 = H, alkyl, halo; m = 0, 1, 2; R8 = H, alkyl, haloalkyl, alkylcarbonyl, formyl, alkoxy, alkoxy, haloalkoxy, alkoxy, alkylsulfanyl, haloalkylsulfanyl; R9 = substituted pyrazole-4-yl, alkoxy, 5-oxopyrazolin-4-yl, methyl, were prep. Thus,
(5-hydroxy-1-methyl-1H-pyrazol-4-yl)-(8-methylsulfonyl-3a,4-dihydro-3H-indeno[1,2-c]isoxazol-5-yl)methanone (prepn. given) in THF was treated with Et3N and PhCOCl in THF followed by stirring overnight to give 311 (5-phenylcarbonyloxy-1-methyl-1H-pyrazol-4-yl)-(8-methylsulfonyl-3a,4-dihydro-3H-indeno[1,2-c]isoxazol-5-yl)methanone. The latter at 0.25-0.5 kg/ha showed very good postemergent herbicidal activity.
IT 293312-14-8P 293312-15-9P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tricyclic benzopyrazoles as herbicides)
RN 293312-14-8 CAPLUS
CN Methanone, [3a,4-dihydro-8-(methylsulfonyl)-3H-indeno[1,2-c]isoxazol-5-yl-(5-hydroxy-1-methyl-1H-pyrazol-4-yl)-], (9CI), [CA INDEX NAME]

Cc1nc(C(=O)c2ccc(S(=O)(=O)C)cc2C3C=CN3)c(C(=O)Oc4ccccc4)n1c1ccc2c(c1)c3ccccc3n2CSC1=CC=C2C3=CC=CC=C3C=C2C=C1N=C4C=CC=CC4

RN 293312-29-5 CAPLUS
CN 3H-Indeno[1,2-c]isoxazole, 5-bromo-3a,4-dihydro-8-(methylthio)- (9CI)
(CA
INDEX NAME)

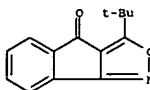


RN 293312-30-8 CAPLUS
CN 3H-Indeno[1,2-c]isoxazole, 5-bromo-3a,4-dihydro-8-(methylsulfonyl)- (9CI)
(CA INDEX NAME)

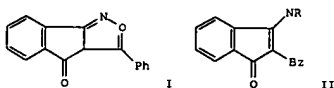


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR
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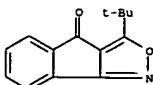
L29 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:34042 CAPLUS
DOCUMENT NUMBER: 100:34042
TITLE: Structure elucidation using signal intensity effects in carbon-13 nuclear magnetic resonance
AUTHOR(S): Shapiro, M. J.; Kolpak, M. X.; Lemke, T. L. L.
CORPORATE SOURCE: Dep. Pharm. Med. Chem., Sandoz Inc., East Hanover, NJ, 07936, USA
SOURCE: Journal of Organic Chemistry (1984), 49(1), 187-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Methods for structure elucidation utilizing the perturbation of non-protonated carbon signal intensities are presented. The effects of exchange deuteration and the techniques of difference heteronuclear NOE are described.
IT 82501-28-8
RL: PRP (Properties)
(structure elucidation of, proton-decoupled carbon-13 NMR and difference heteronuclear NOE in relation to)
RN 82501-28-8 CAPLUS
CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



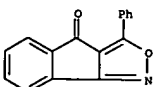
L29 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:612439 CAPLUS
DOCUMENT NUMBER: 99:212439
TITLE: Ring opening reactions of indeno[1,2-c]isoxazolones
AUTHOR(S): Lemke, Thomas L.; Sawhney, Kailash N.
CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Journal of Heterocyclic Chemistry (1983), 20(4), 899-901
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:212439
GI



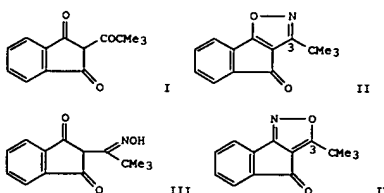
AB Nucleophilic attack of 8-substituted indeno[1,2-c]isoxazol-7-ones and 3-phenylindeno[1,2-c]isoxazol-4-one by Me2SO or PPh3 results in cleavage of the N-O bond of the isoxazole ring leading to the formation of sulfoximides and phosphazenes. Thus, treating indenoisoxazolone I with Me2SO and PPh3 gave II (R = NSOMe2, NPPH3), resp.
IT 82501-28-8 87885-96-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of)
RN 82501-28-8 CAPLUS
CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



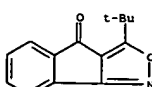
RN 87885-96-9 CAPLUS
CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-phenyl- (9CI) (CA INDEX NAME)



L29 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:71358 CAPLUS
DOCUMENT NUMBER: 98:71358
TITLE: The utilization of chemical shift and spin-lattice (T1) relaxation time data for the discrimination of isomeric indenoisoxazoles
AUTHOR(S): Womack, Charles H.; Gampe, Robert T., Jr.; Lemke, B. Kaye; Sawhney, Kailash N.; Lemke, Thomas L.; Martin, Gary E.
CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
SOURCE: Journal of Heterocyclic Chemistry (1982), 19(5), 1105-7
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Treatment of I with NH2OH under acidic conditions gave II. Similar reaction of I under neutral or basic conditions gave III which was cyclized to IV. 13C NMR was used to differentiate II from IV based on assignments made using T1 relaxation as a guide; in the case of II the C(3) resonance is mediated by both the 14N-13C dipolar mechanism and by the nine Me3C protons while the C(3) of IV is relaxed solely by the Me3C protons. II and IV are also chemical differentiable.
IT 82501-28-8
RL: PRP (Properties)
(carbon-13 NMR and spin-lattice relaxation of)
RN 82501-28-8 CAPLUS
CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1982:455721 CAPLUS

DOCUMENT NUMBER: 97:55721

TITLE: Synthesis and chemical reactivity of indenoisoxazoles
 AUTHOR(S): Lemke, Thomas L.; Sawhney, Kailash N.; Lemke, B. Kaye
 CORPORATE SOURCE: Coll. Pharm., Univ. Houston, Houston, TX, 77004, USA
 SOURCE: Journal of Heterocyclic Chemistry (1982), 19(2), 363-8

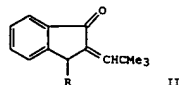
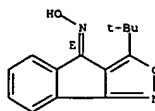
CODEN: JHTCAD; ISSN: 0022-152X

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 97:55721

GI



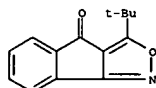
AB Treatment of 2-pivaloyl-1,3-indandione with NH_2OH under acidic conditions, results in formation of 8-tert-butylindeno[1,2-c]isoxazol-7-one (I) while at neutral or basic pH 3-tert-butylindeno[1,2-c]isoxazol-4-one was obtained. The latter compound was readily reduced to amine with N_2H_4 or H-Pt . The amine, although quite unreactive, was converted to 3-tert-butylindeno[1,2-c]pyrazol-4-one with N_2H_4 or reduced to II ($\text{R} = \text{H}$, OH) with $\text{Na-NH}_3\text{-Me}_3\text{COH}$. Surprisingly, the amine obtained from I gave II ($\text{R} = \text{H}$) from a Na-NH_3 reduction. Spectral evidence for each of the structures is discussed.

IT 82501-29-8P 82501-29-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 82501-29-8 CAPLUS

CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 82501-29-9 CAPLUS

CN 4H-Indeno[1,2-c]isoxazol-4-one, 3-(1,1-dimethylethyl)-, oxime, (E)- (9CI)
 (CA INDEX NAME)

Double bond geometry as shown.

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

277.99

1129.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-40.88

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